

Step 1: Choose a category

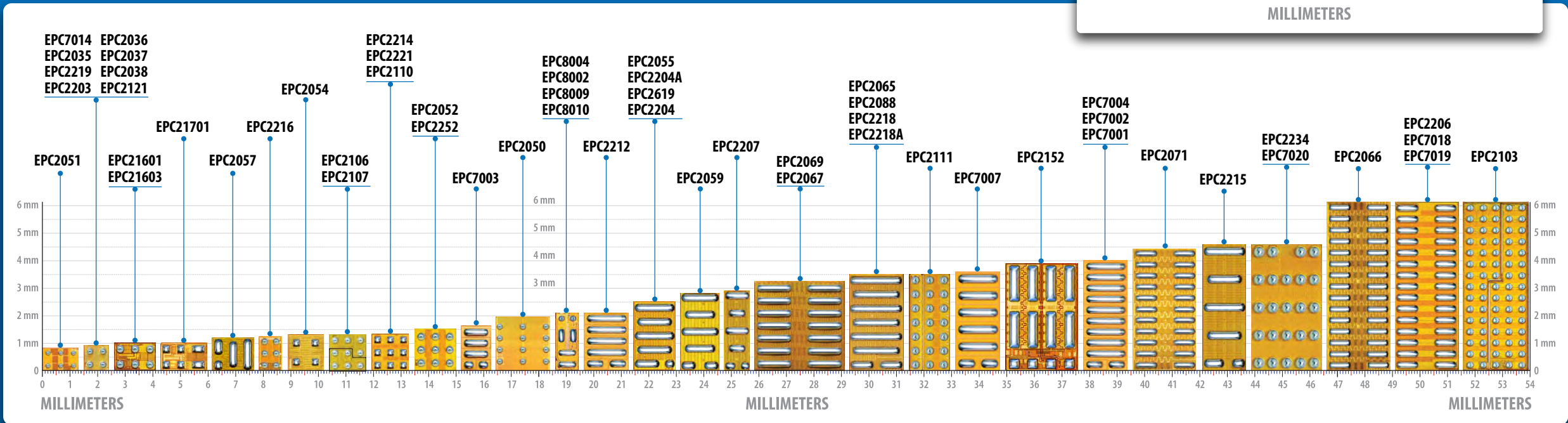
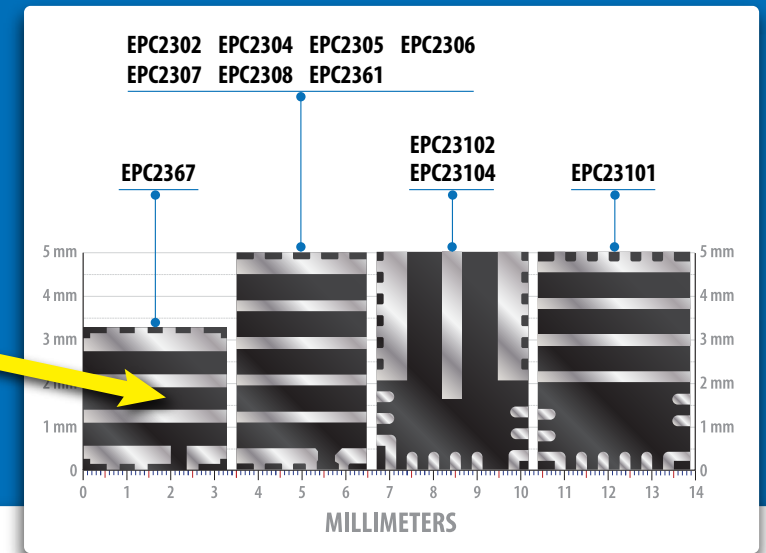
Integrated Circuits

Commercial

Automotive

Rad-Hard

NEW!

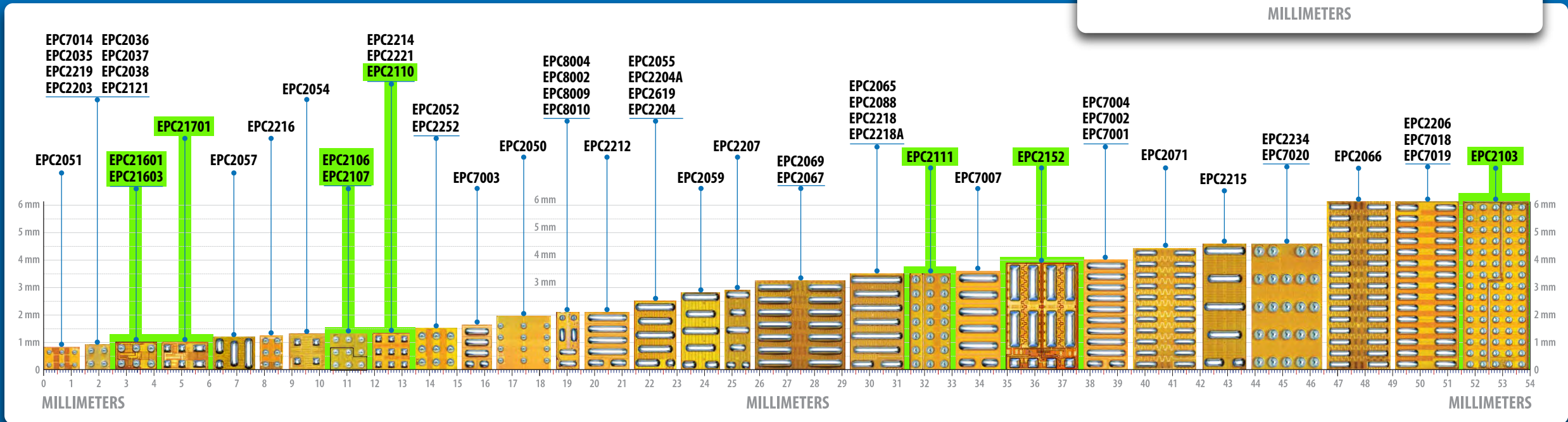
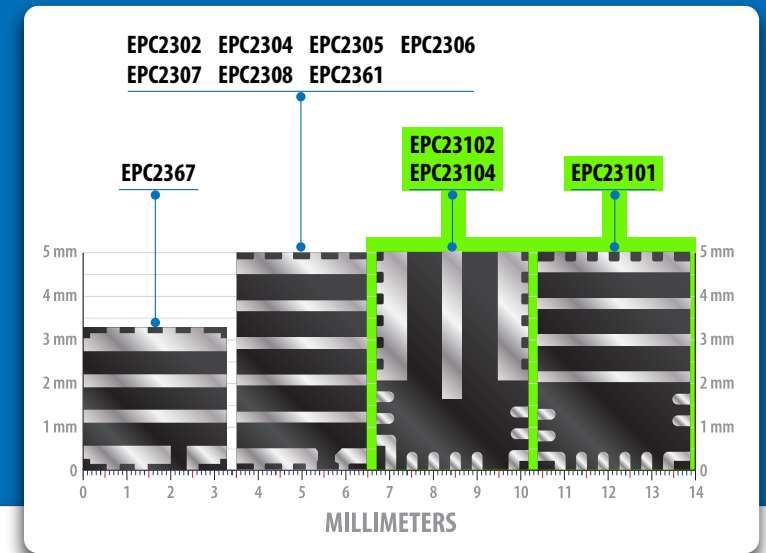


Step 1: Choose a category

Integrated Circuits Commercial Automotive Rad-Hard

Step 2: Choose voltage

30 40 80 100 120

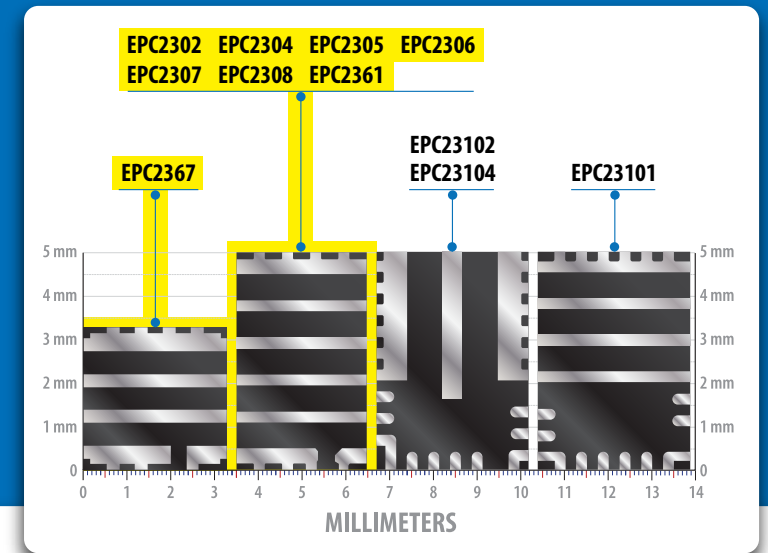
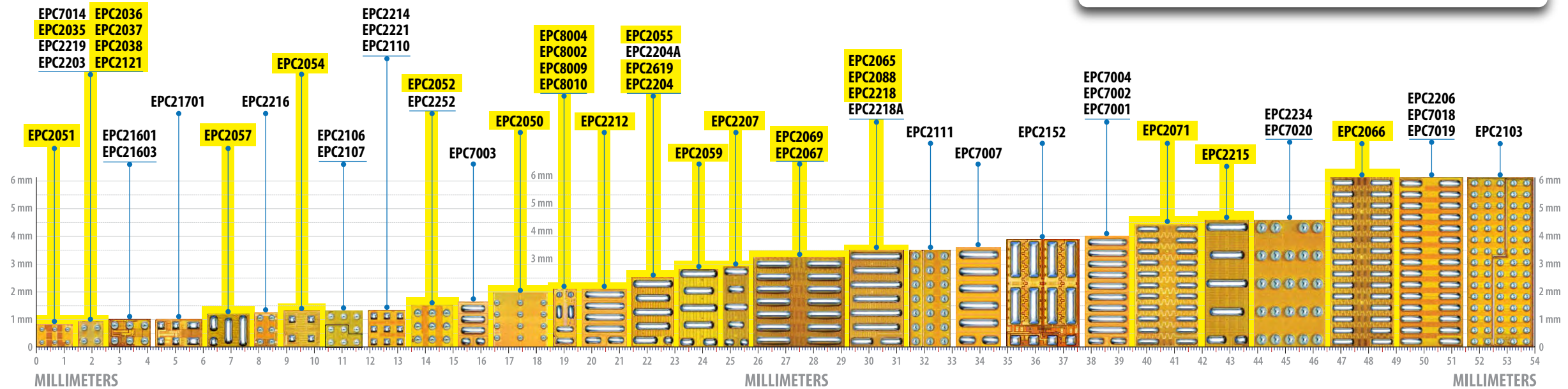


Step 1: Choose a category

Integrated Circuits **Commercial** Automotive Rad-Hard

Step 2: Choose voltage

40 50 60 65 80 100 150 170 200 350

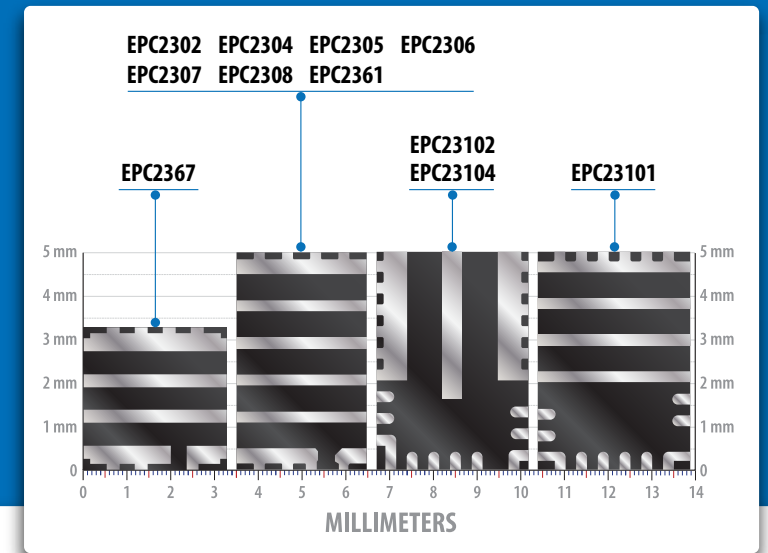
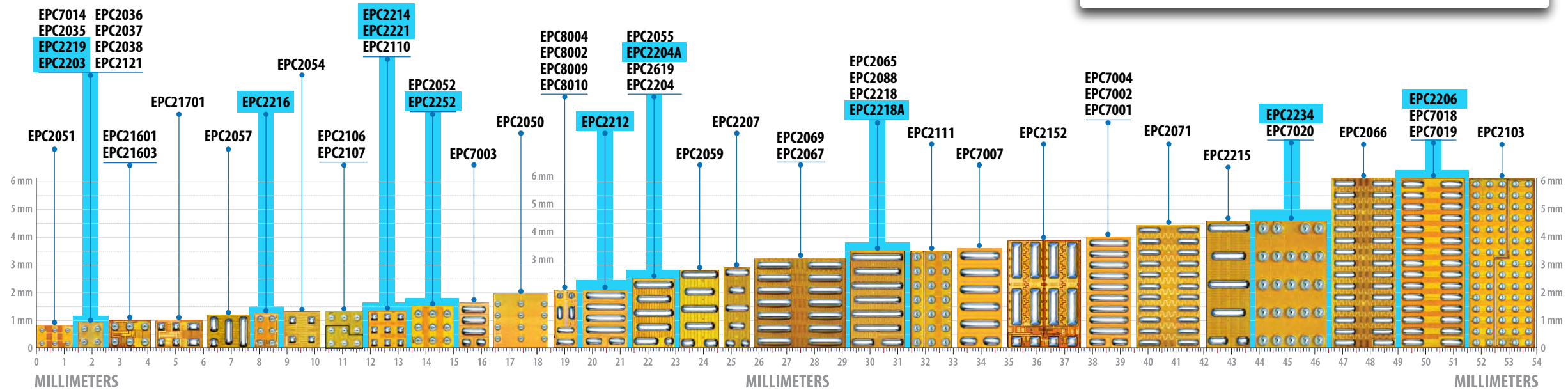


Step 1: Choose a category

Integrated Circuits Commercial **Automotive** Rad-Hard

Step 2: Choose voltage

15 65 80 100 160

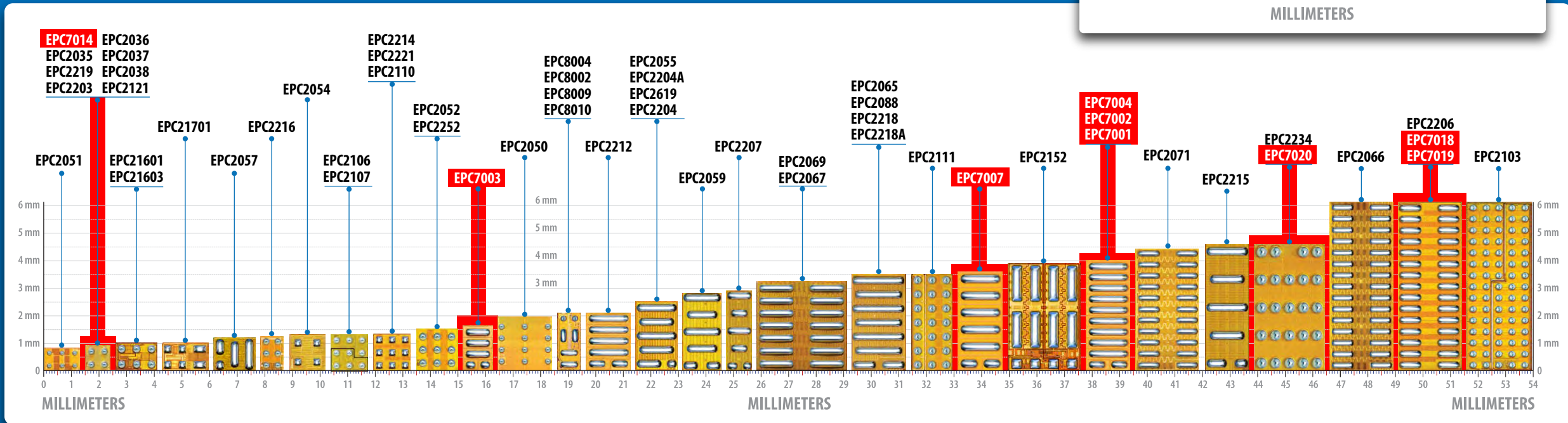
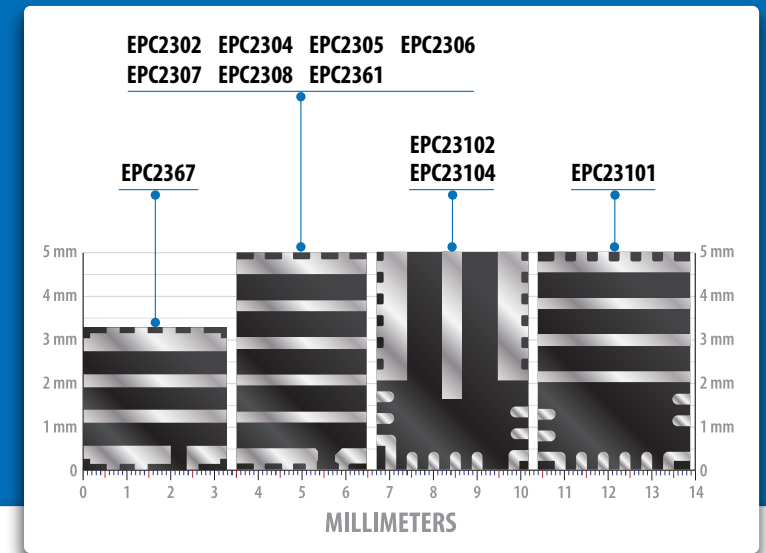


Step 1: Choose a category

Integrated Circuits Commercial Automotive **Rad-Hard**

Step 2: Choose voltage

40 **60** **100** **200**

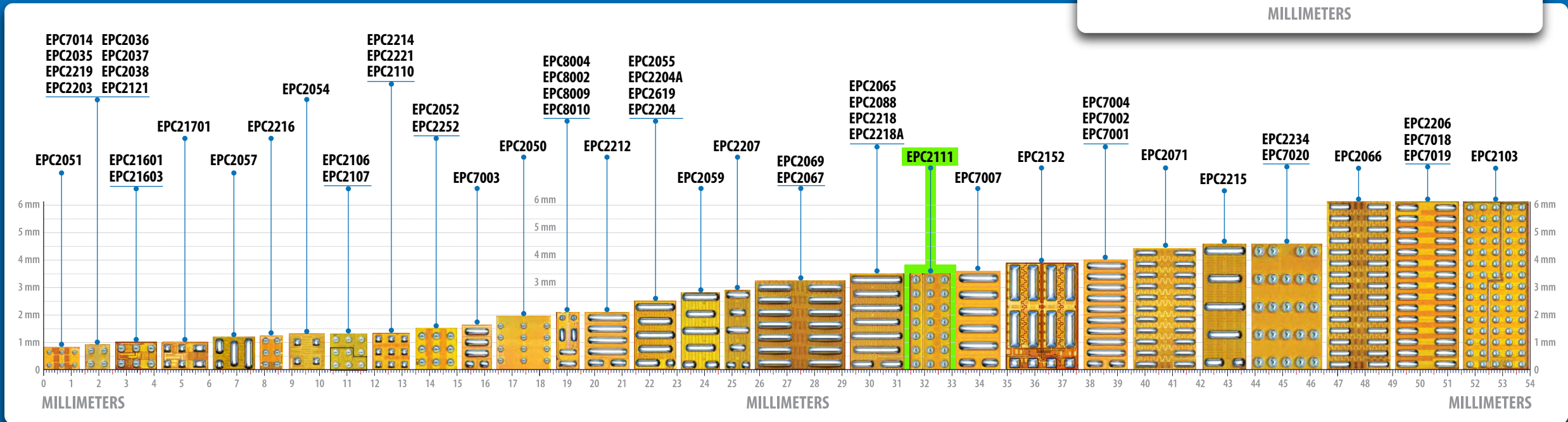
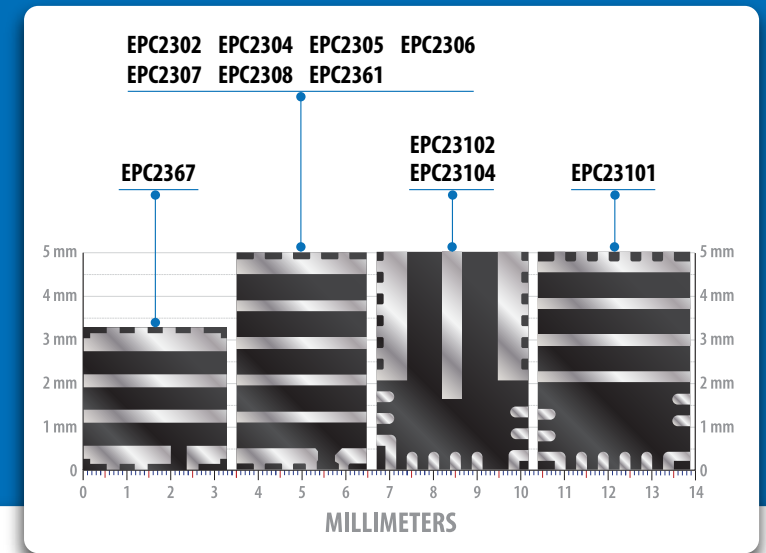


Step 1: Choose a category

Integrated Circuits Commercial Automotive Rad-Hard

Step 2: Choose voltage

30 40 80 100 120



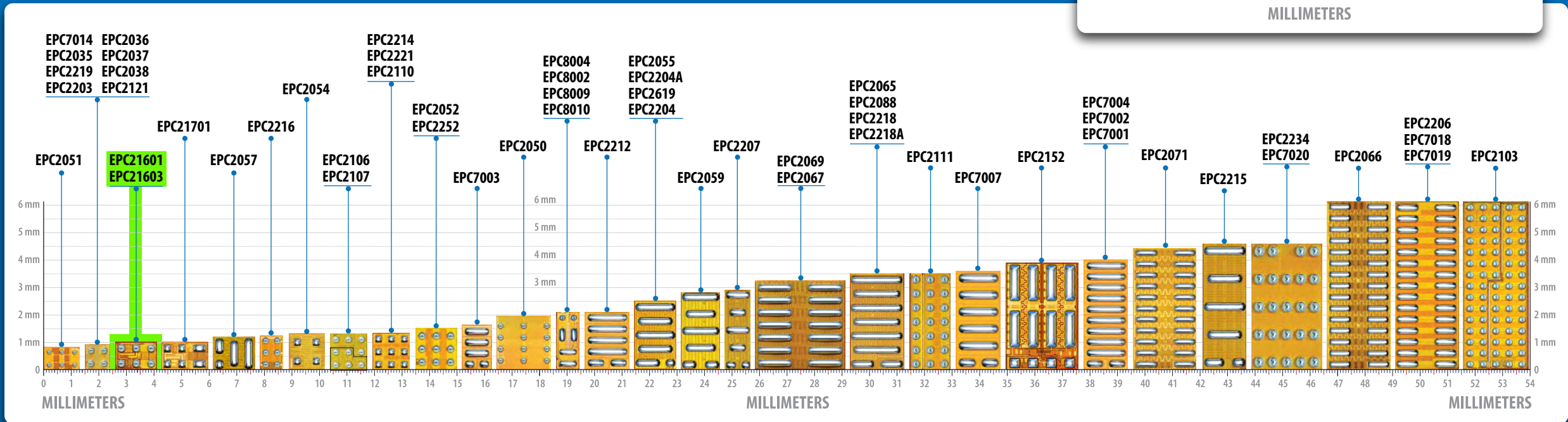
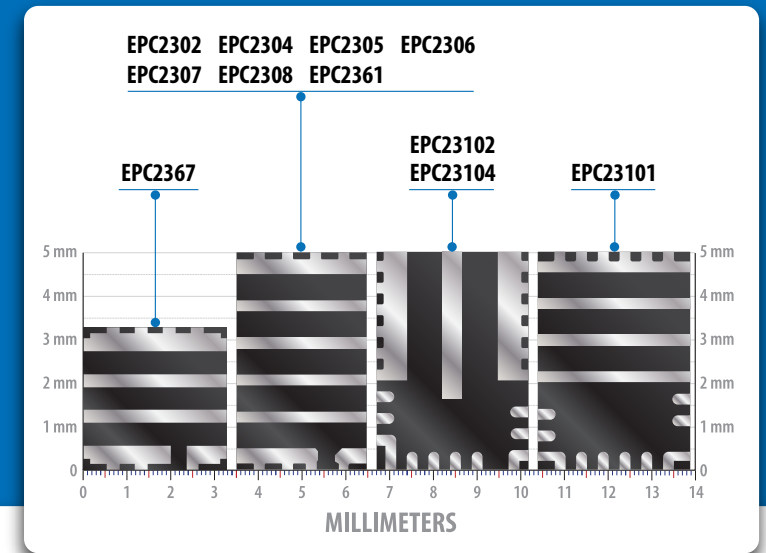
Step 3: Click on highlighted parts for details

Step 1: Choose a category

Integrated Circuits Commercial Automotive Rad-Hard

Step 2: Choose voltage

30 **40** 80 100 120



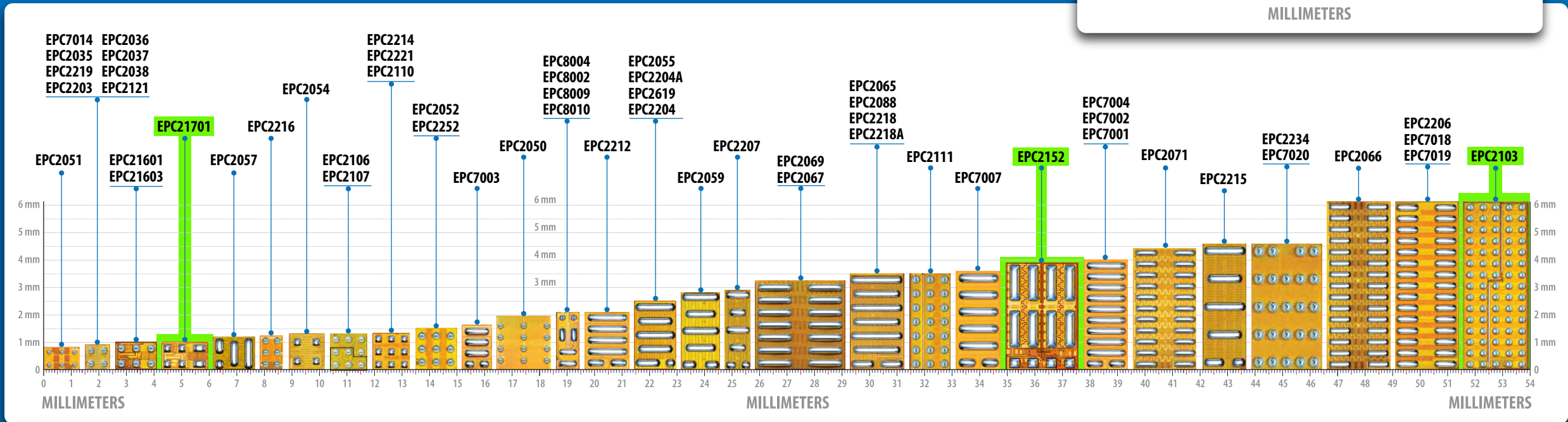
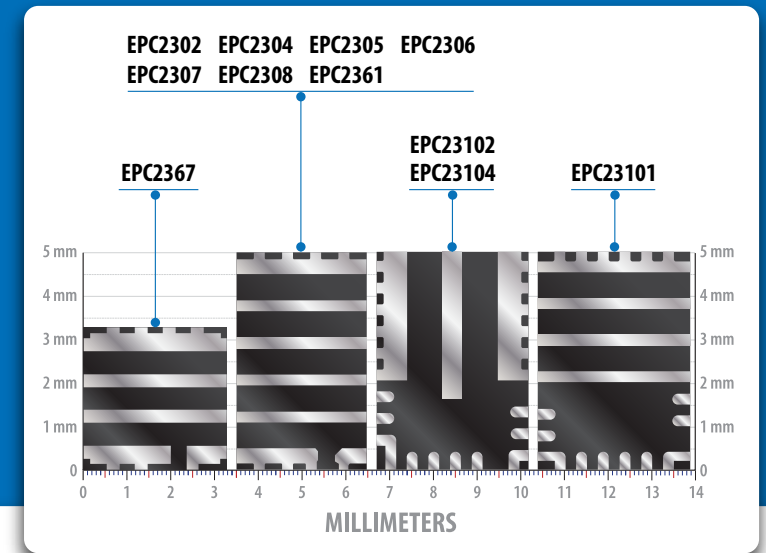
Step 3: Click on highlighted parts for details

Step 1: Choose a category

Integrated Circuits Commercial Automotive Rad-Hard

Step 2: Choose voltage

30 40 **80** 100 120



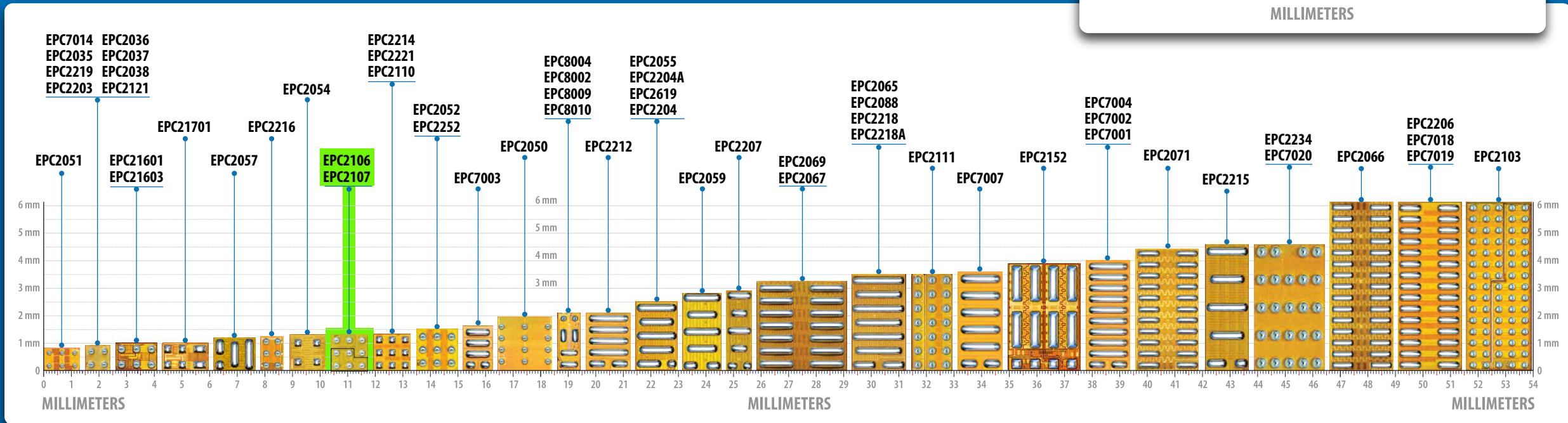
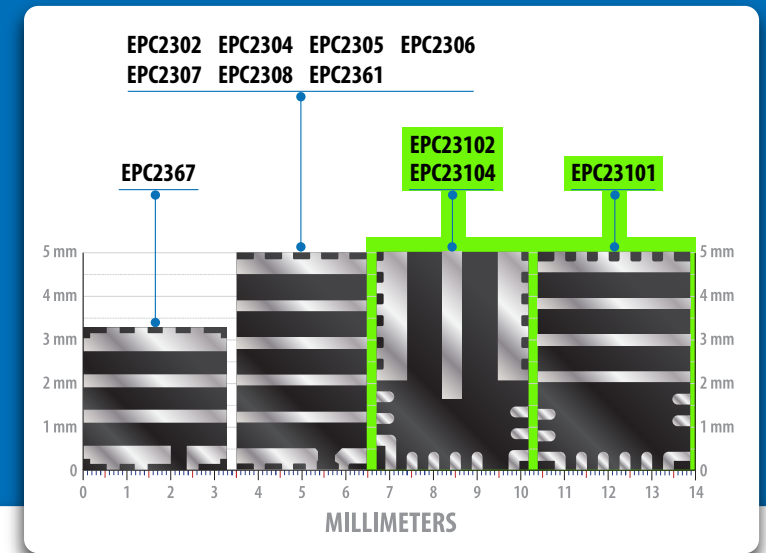
Step 3: Click on highlighted parts for details

Step 1: Choose a category

Integrated Circuits Commercial Automotive Rad-Hard

Step 2: Choose voltage

30 40 80 **100** 120



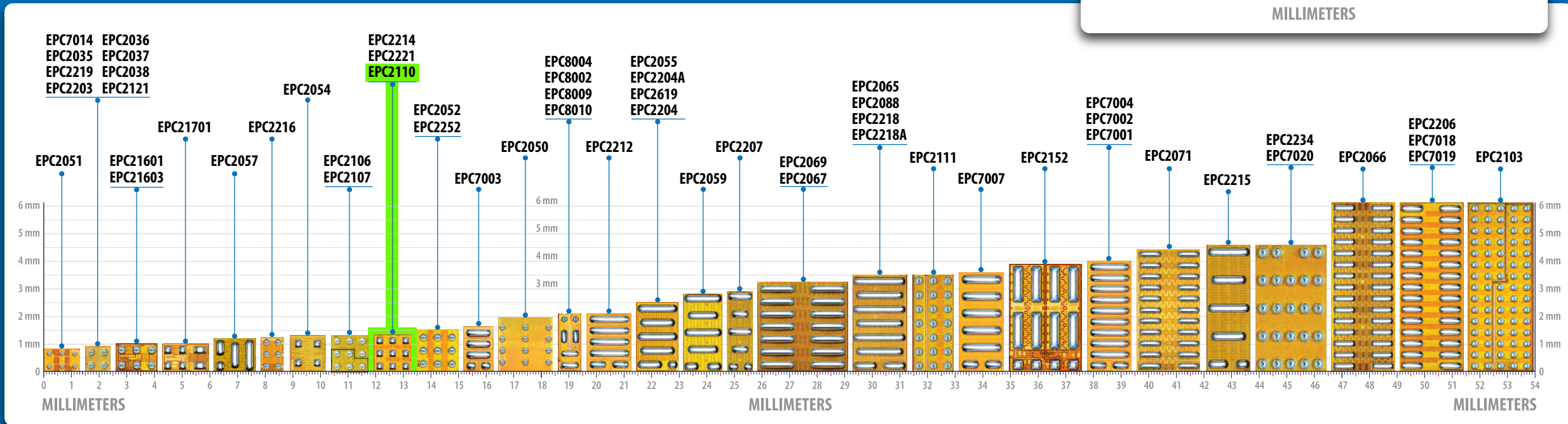
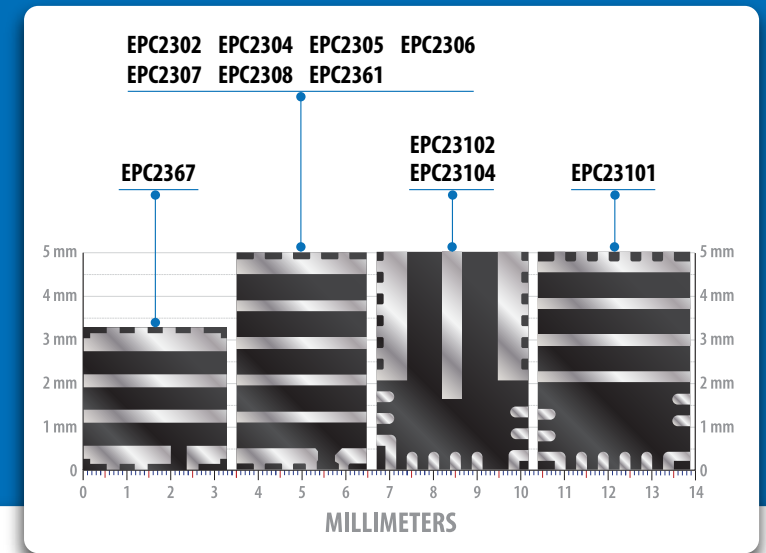
Step 3: Click on highlighted parts for details

Step 1: Choose a category

Integrated Circuits Commercial Automotive Rad-Hard

Step 2: Choose voltage

30 40 80 100 **120**



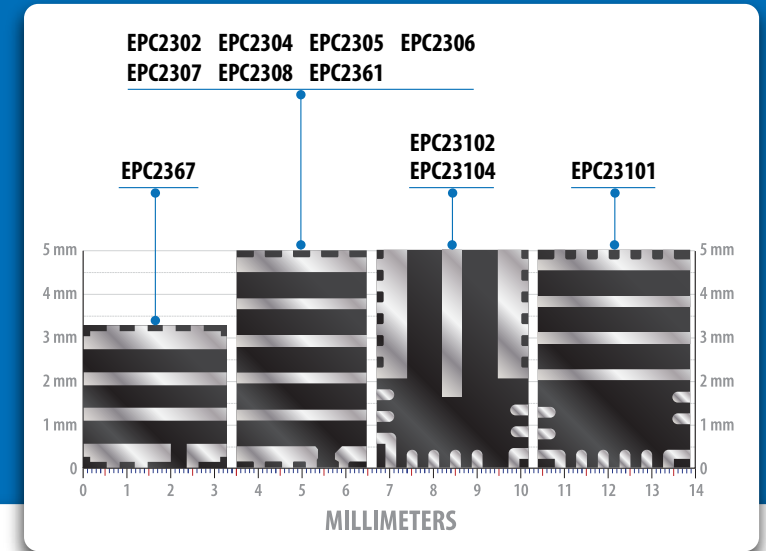
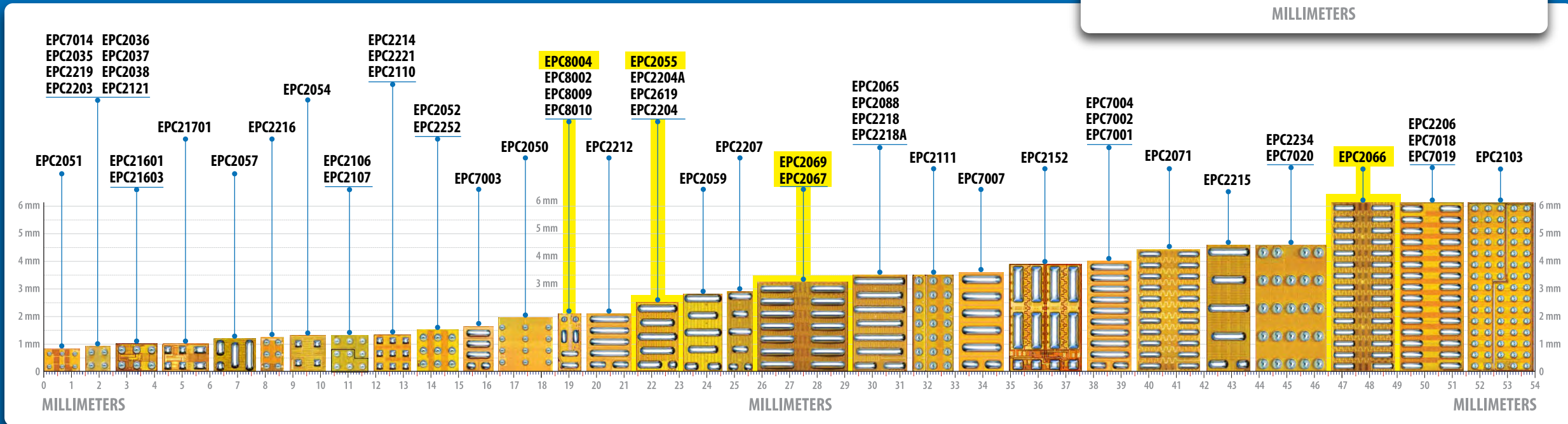
Step 3: Click on highlighted parts for details

Step 1: Choose a category

Integrated Circuits **Commercial** Automotive Rad-Hard

Step 2: Choose voltage

40 50 60 65 80 100 150 170 200 350



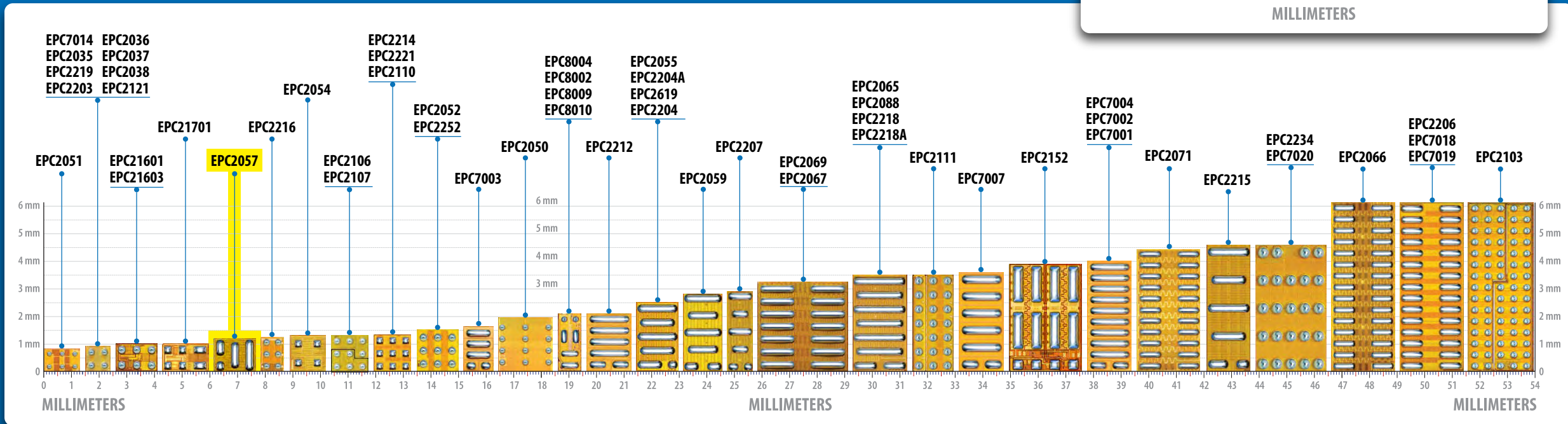
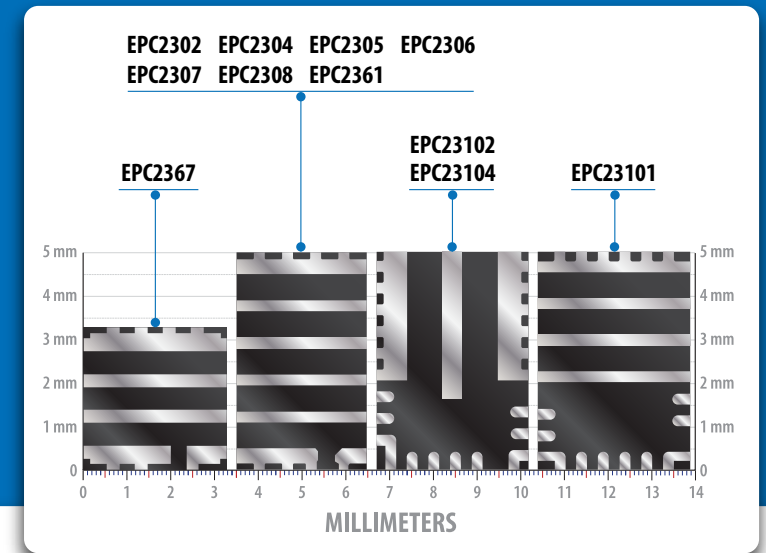
Step 3: Click on highlighted parts for details

Step 1: Choose a category

Integrated Circuits **Commercial** Automotive Rad-Hard

Step 2: Choose voltage

40 **50** 60 65 80 100 150 170 200 350



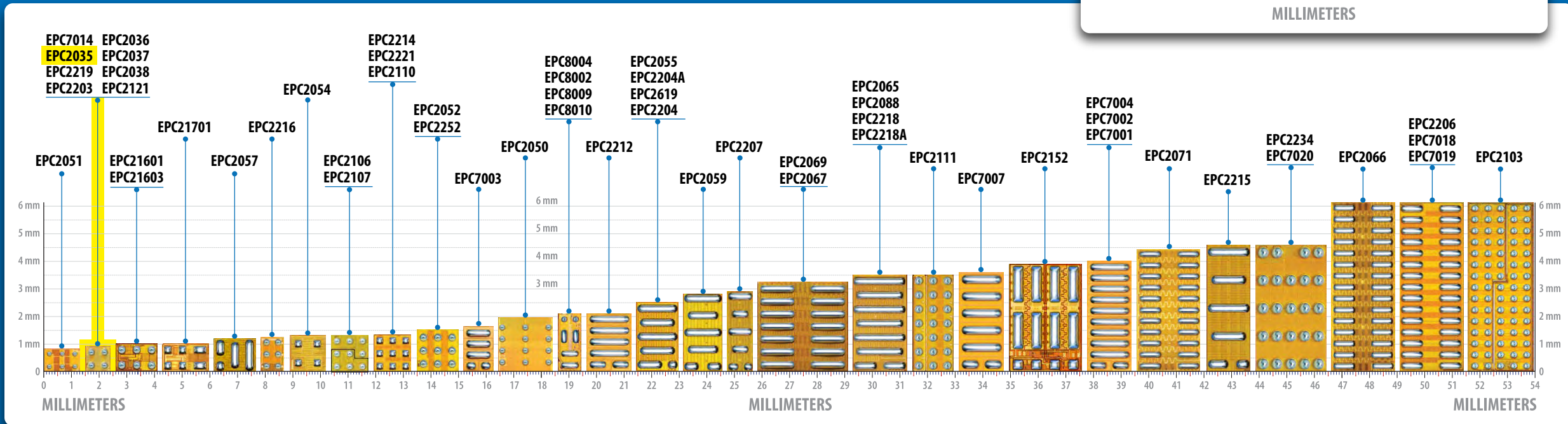
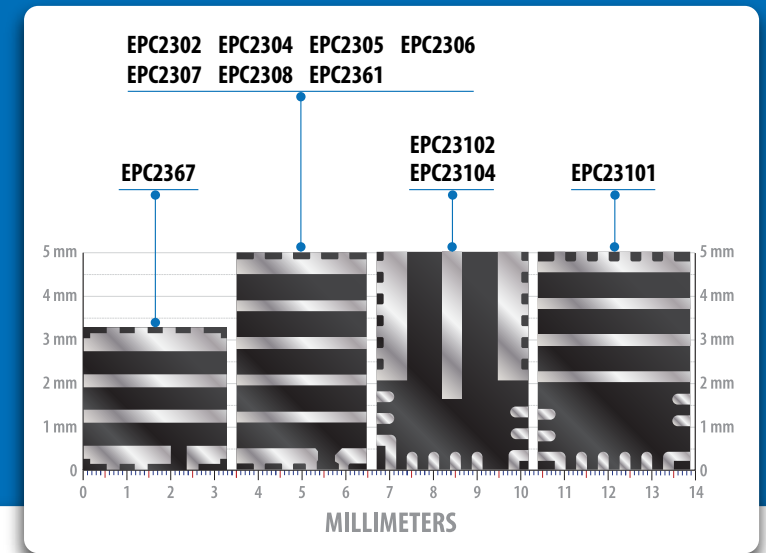
Step 3: Click on highlighted parts for details

Step 1: Choose a category

Integrated Circuits **Commercial** Automotive Rad-Hard

Step 2: Choose voltage

40 50 **60** 65 80 100 150 170 200 350



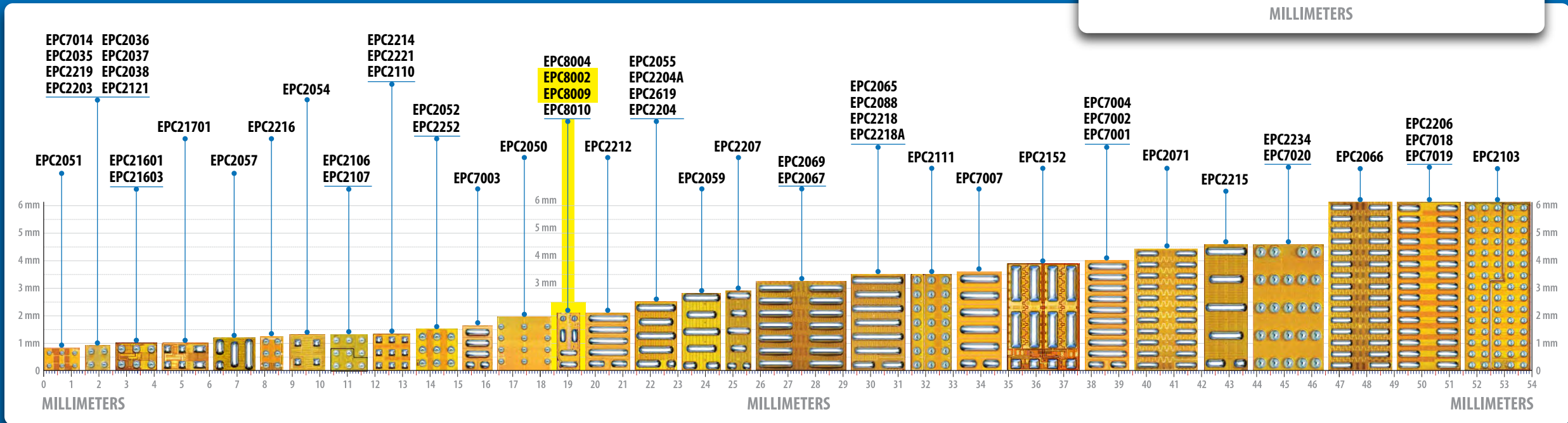
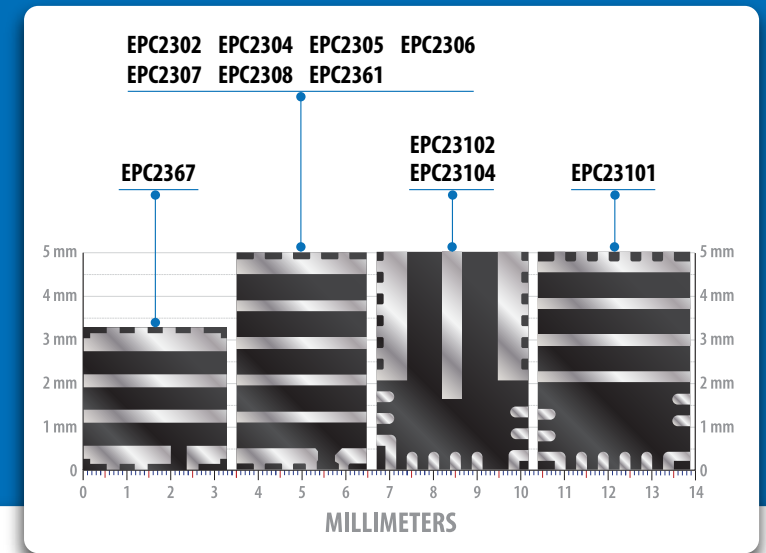
Step 3: Click on highlighted parts for details

Step 1: Choose a category

Integrated Circuits **Commercial** Automotive Rad-Hard

Step 2: Choose voltage

40 50 60 **65** 80 100 150 170 200 350



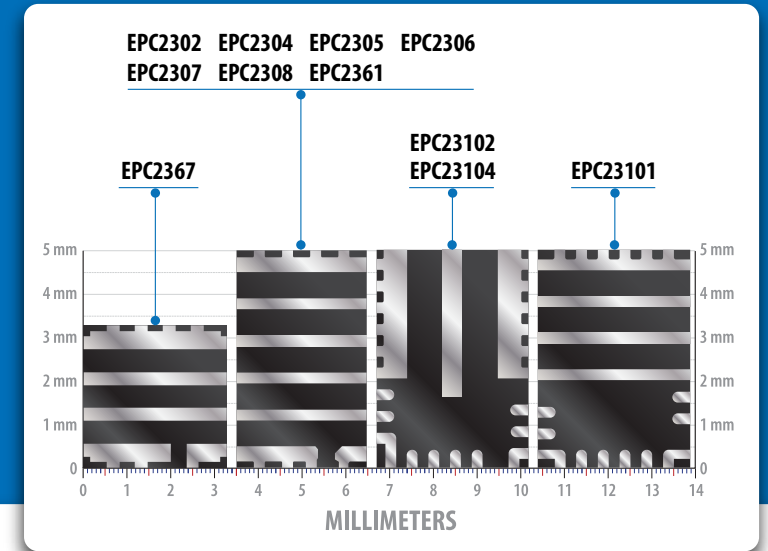
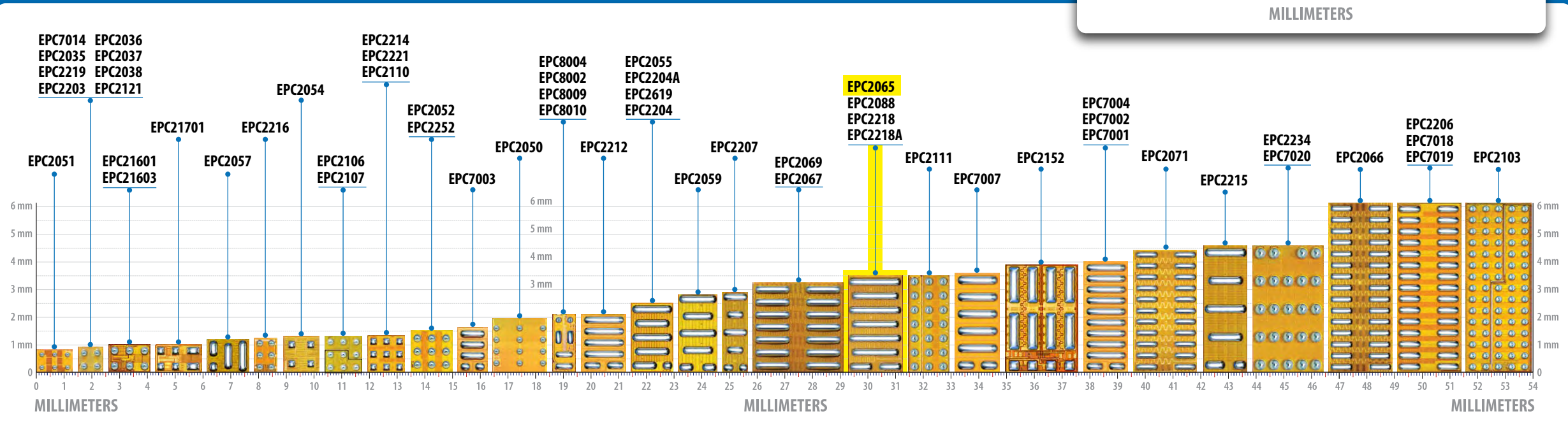
Step 3: Click on highlighted parts for details

Step 1: Choose a category

Integrated Circuits **Commercial** Automotive Rad-Hard

Step 2: Choose voltage

40 50 60 65 **80** 100 150 170 200 350



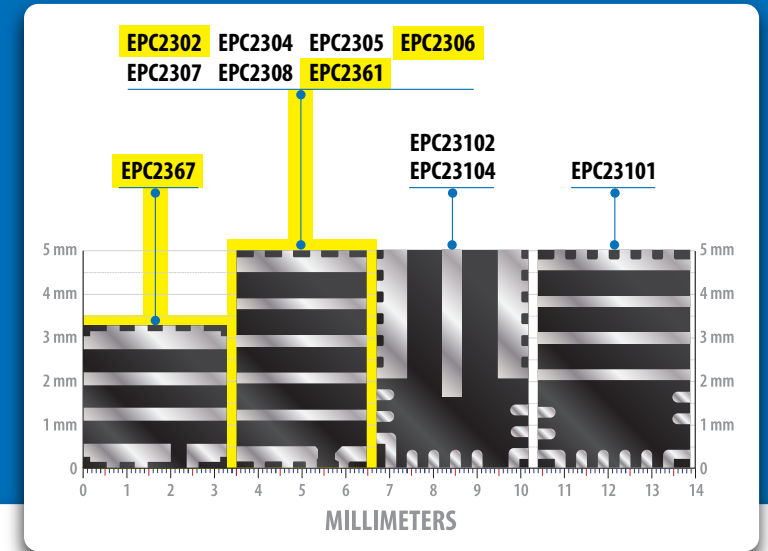
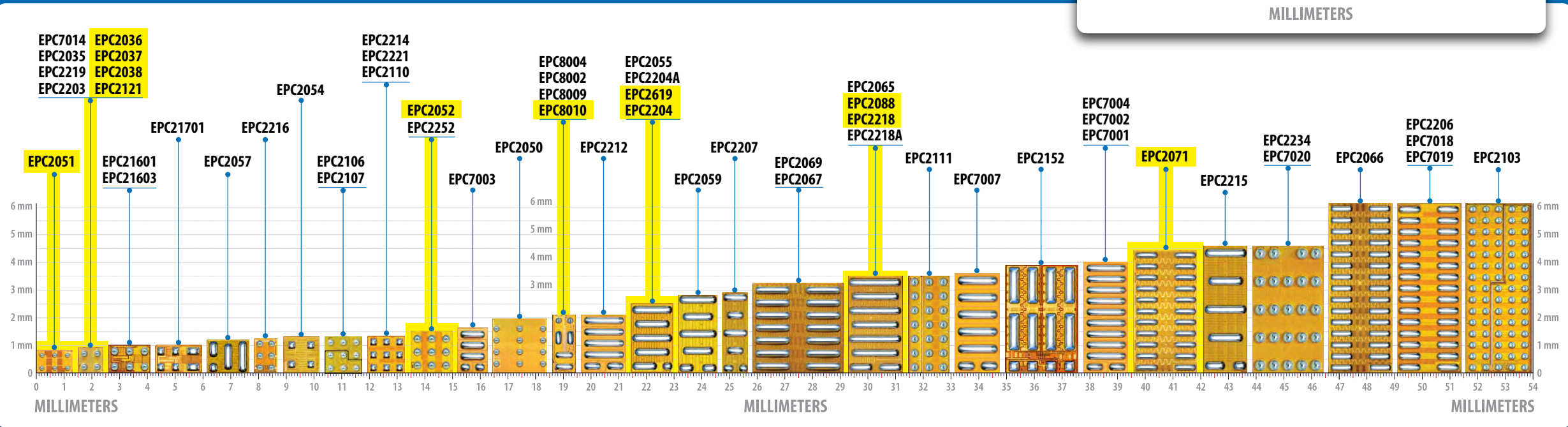
Step 3: Click on highlighted parts for details

Step 1: Choose a category

Integrated Circuits **Commercial** Automotive Rad-Hard

Step 2: Choose voltage

40 50 60 65 80 **100** 150 170 200 350



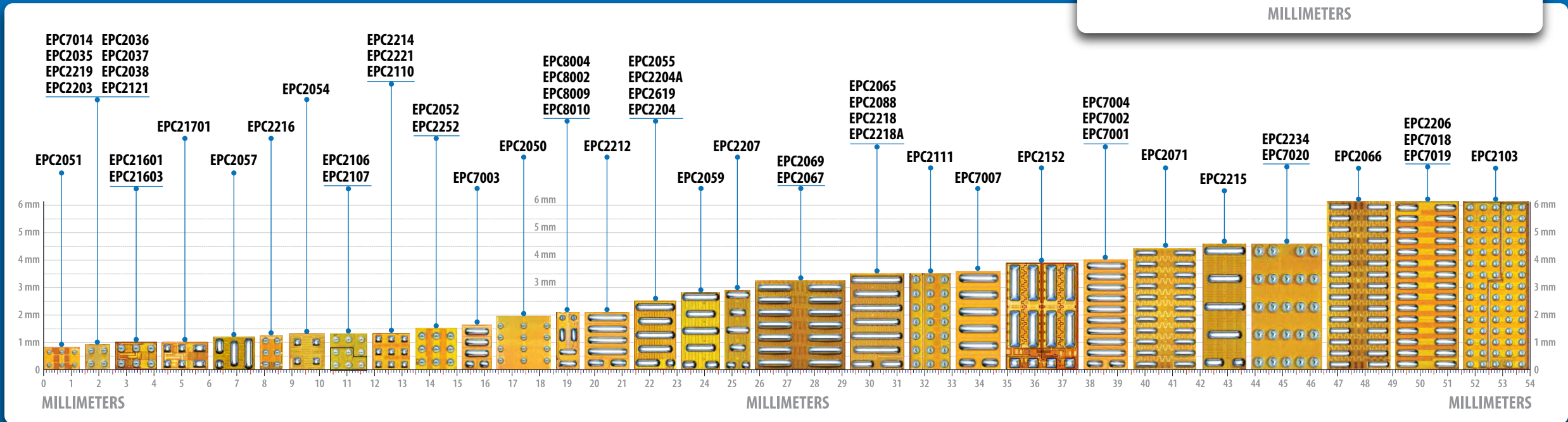
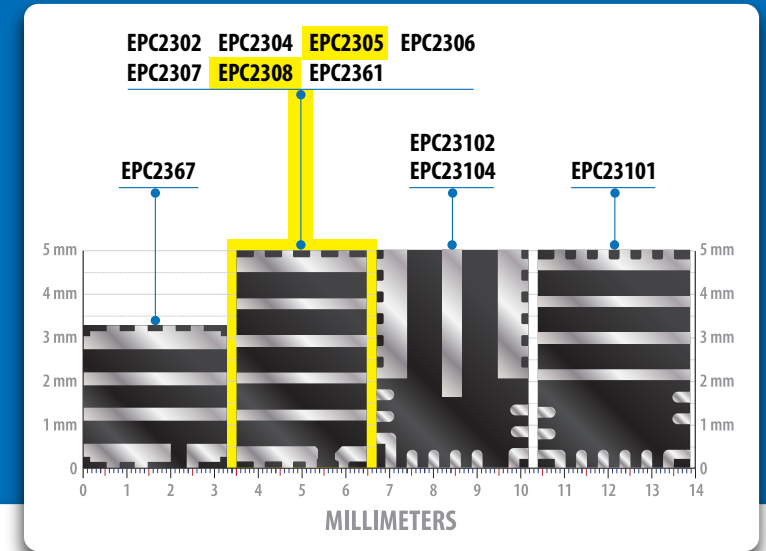
Step 3: Click on highlighted parts for details

Step 1: Choose a category

Integrated Circuits **Commercial** Automotive Rad-Hard

Step 2: Choose voltage

40 50 60 65 80 100 **150** 170 200 350



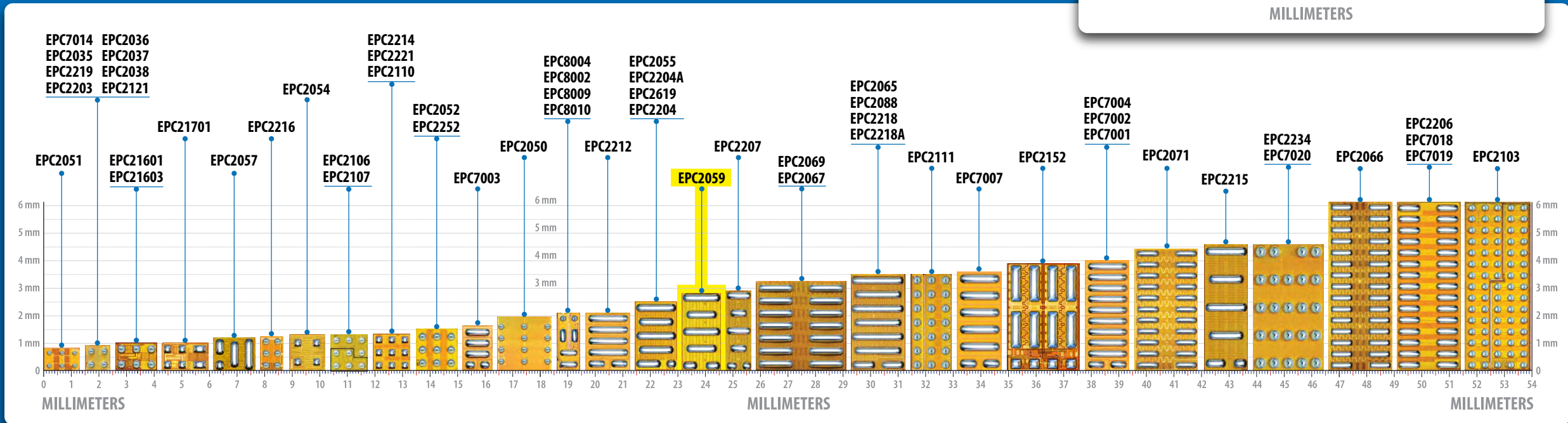
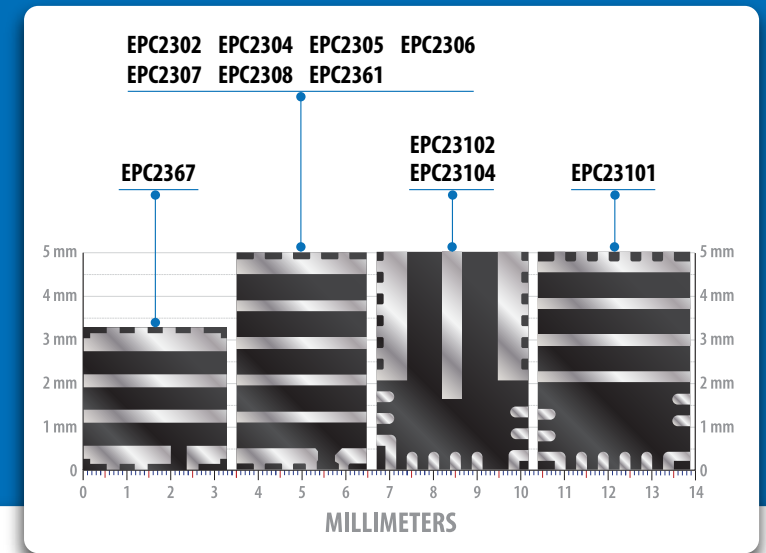
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Step 1: Choose a category

Integrated Circuits **Commercial** Automotive Rad-Hard

Step 2: Choose voltage

40 50 60 65 80 100 150 **170** 200 350



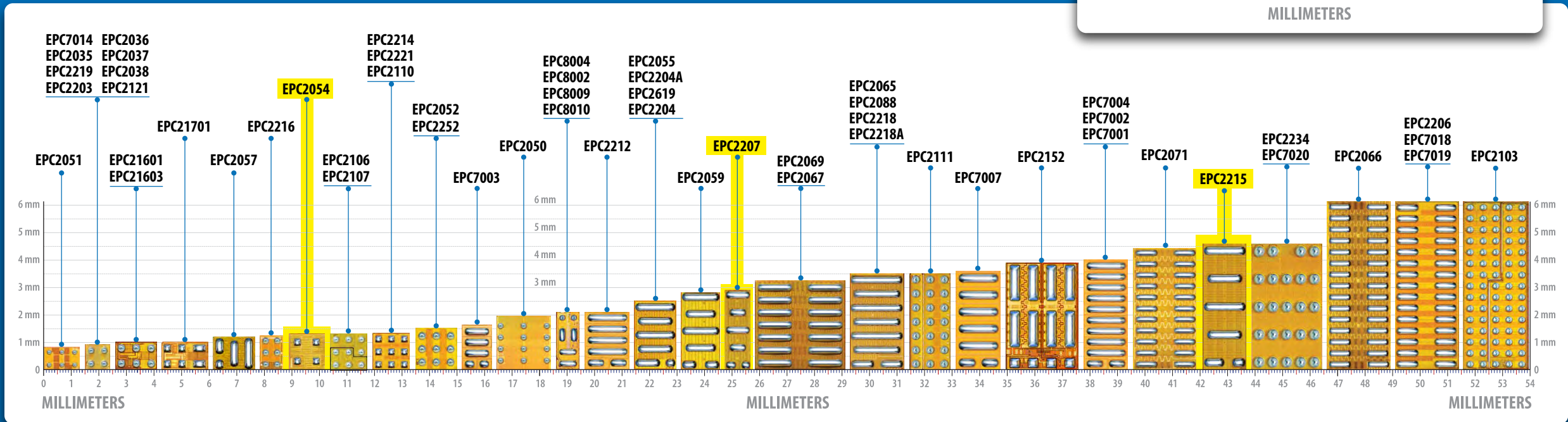
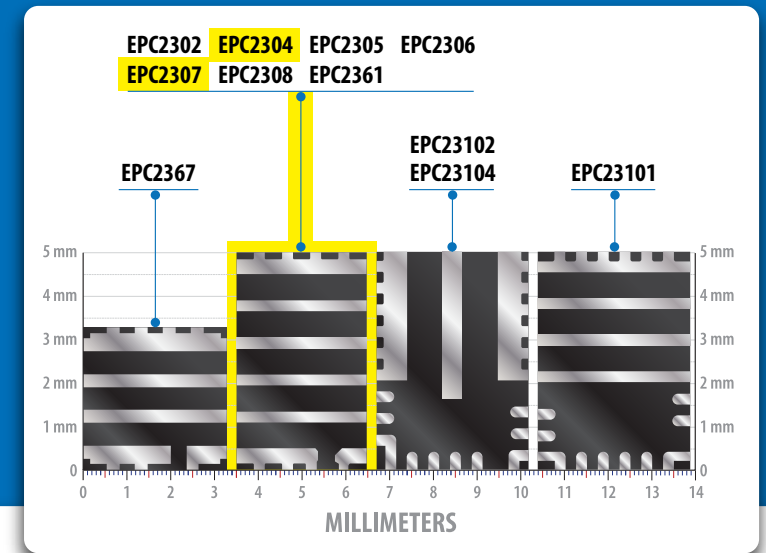
Step 3: Click on highlighted parts for details

Step 1: Choose a category

Integrated Circuits **Commercial** Automotive Rad-Hard

Step 2: Choose voltage

40 50 60 65 80 100 150 170 **200** 350



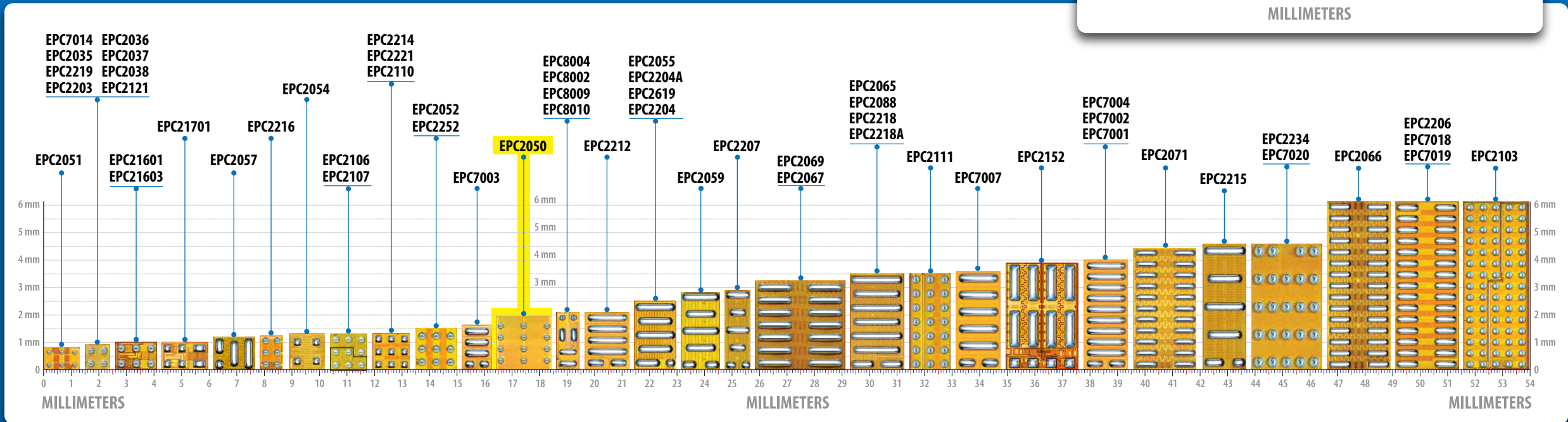
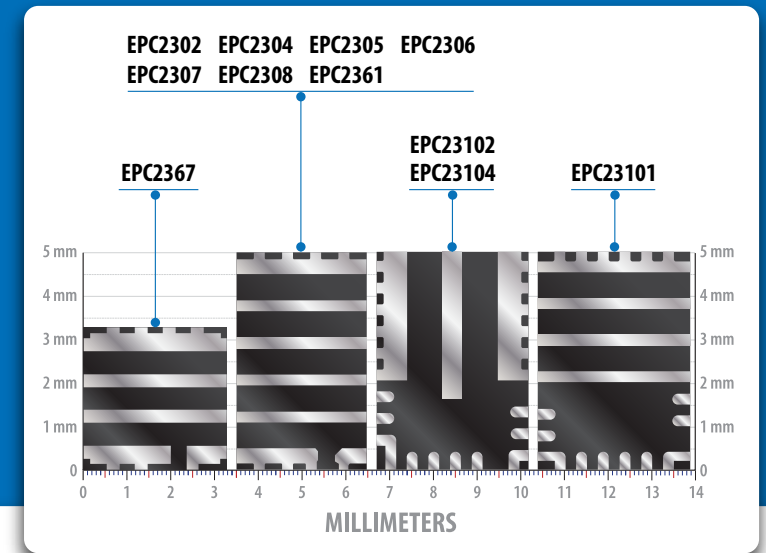
Step 3: Click on highlighted parts for details

Step 1: Choose a category

Integrated Circuits **Commercial** Automotive Rad-Hard

Step 2: Choose voltage

40 50 60 65 80 100 150 170 200 **350**



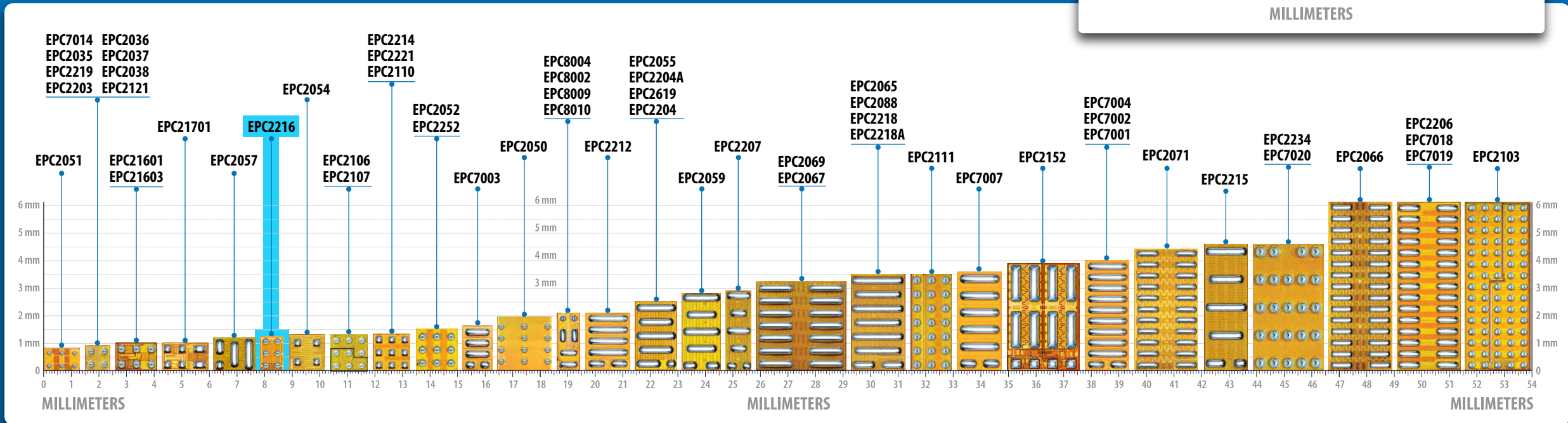
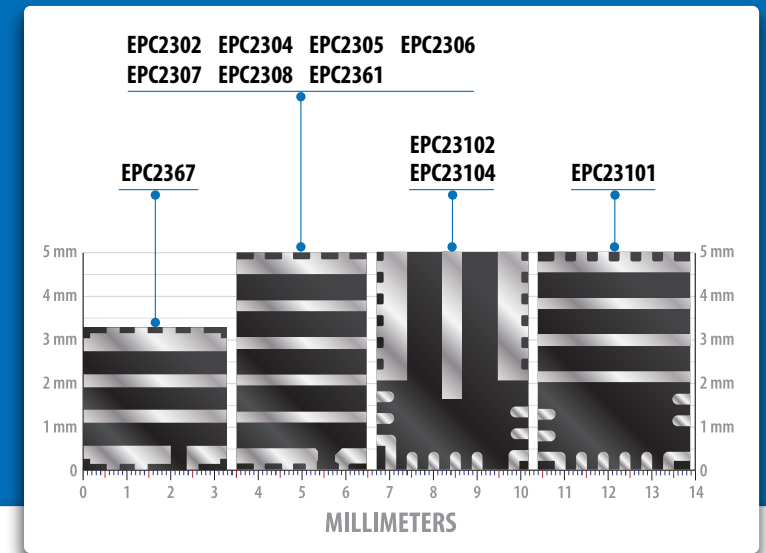
Step 3: Click on highlighted parts for details

Step 1: Choose a category

Integrated Circuits Commercial **Automotive** Rad-Hard

Step 2: Choose voltage

15 65 80 100 160



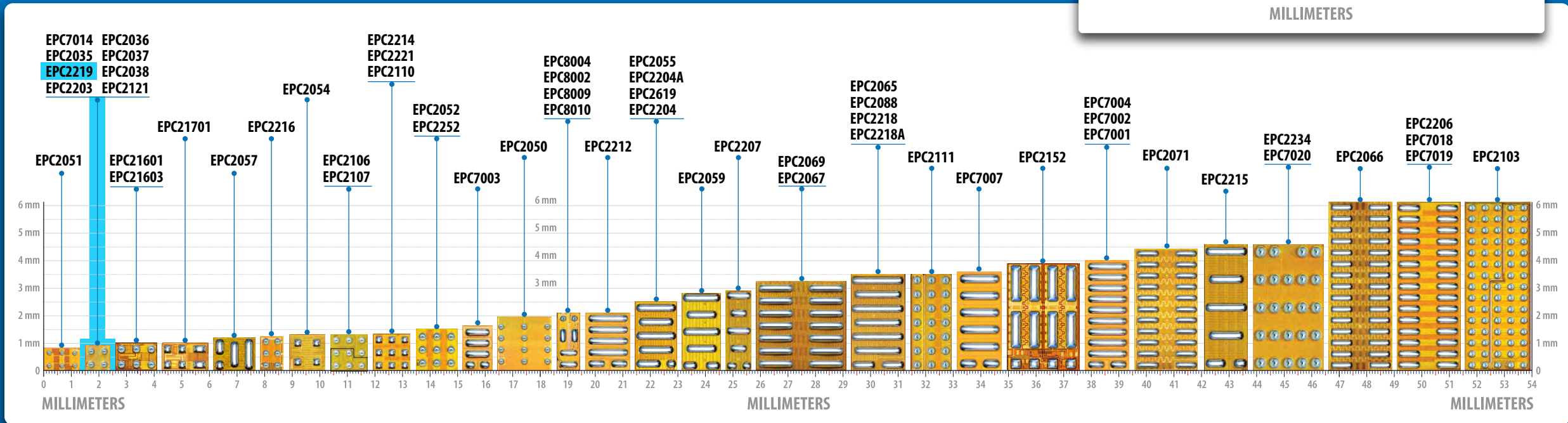
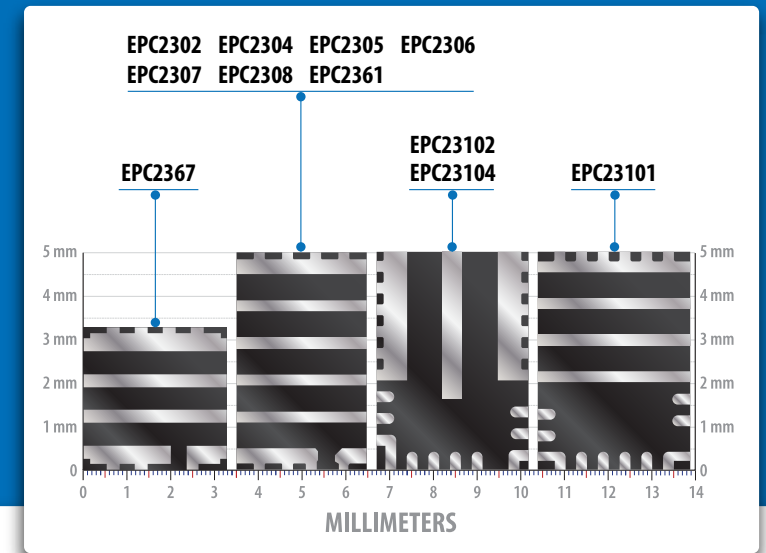
Step 3: Click on highlighted parts for details

Step 1: Choose a category

Integrated Circuits Commercial **Automotive** Rad-Hard

Step 2: Choose voltage

15 **65** 80 100 160



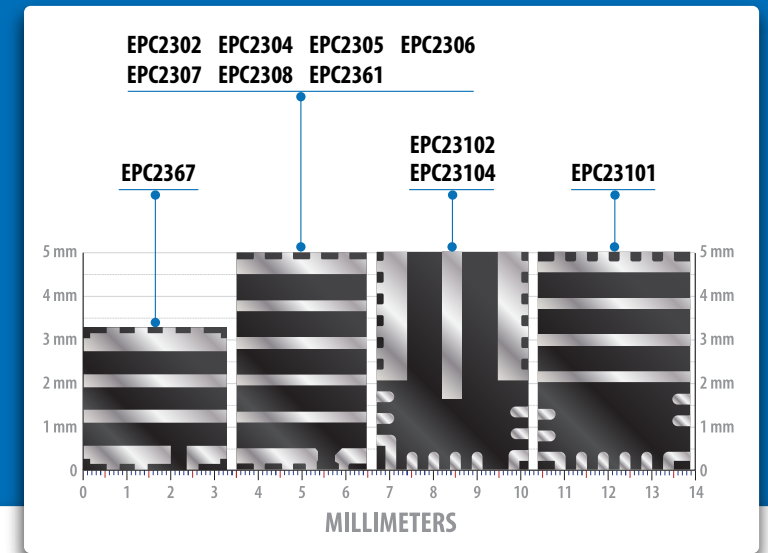
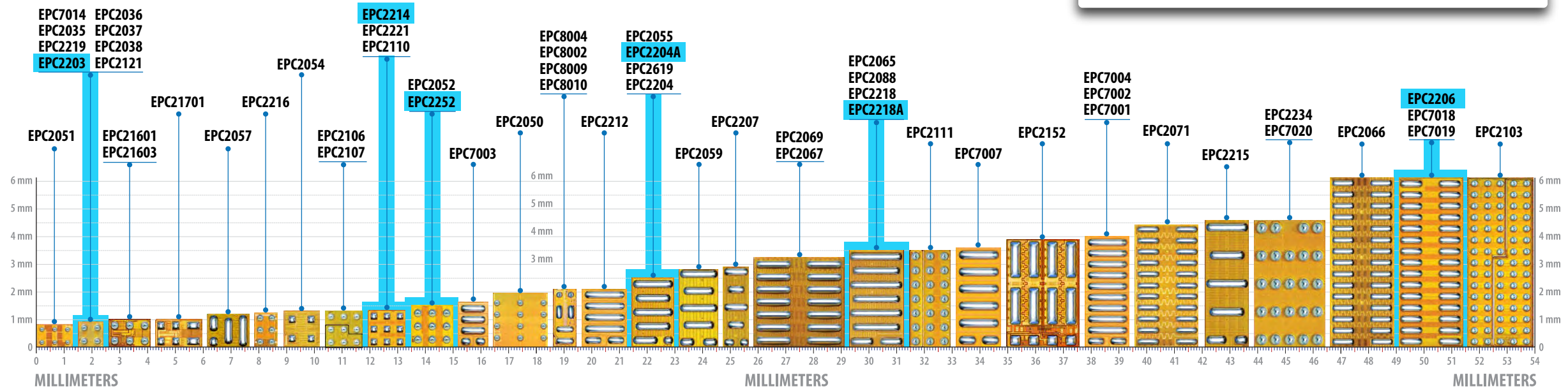
Step 3: Click on highlighted parts for details

Step 1: Choose a category

Integrated Circuits Commercial **Automotive** Rad-Hard

Step 2: Choose voltage

15 65 **80** 100 160



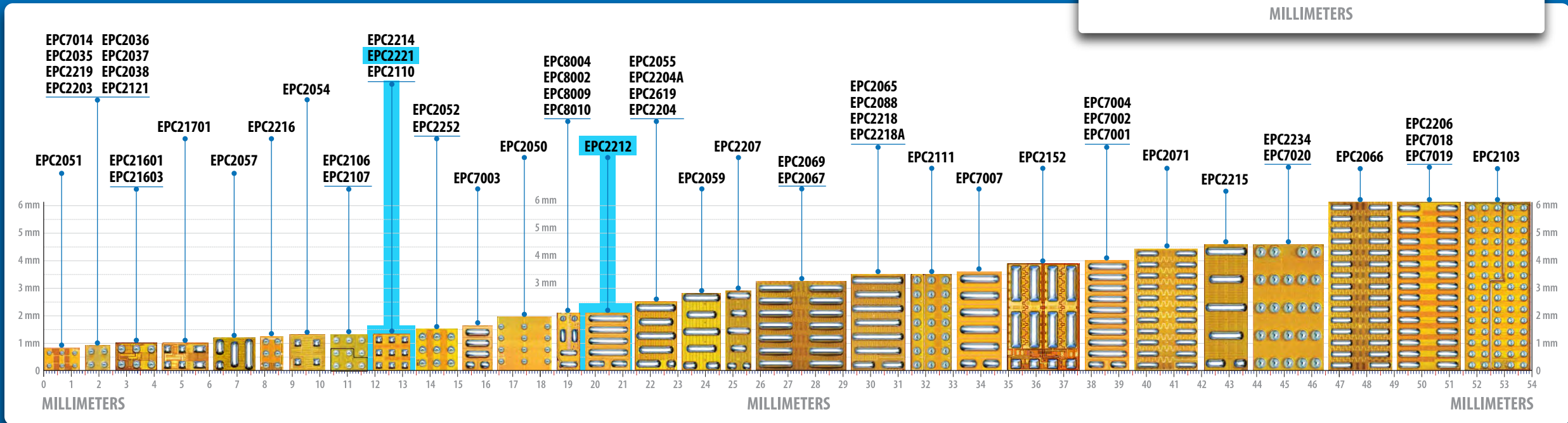
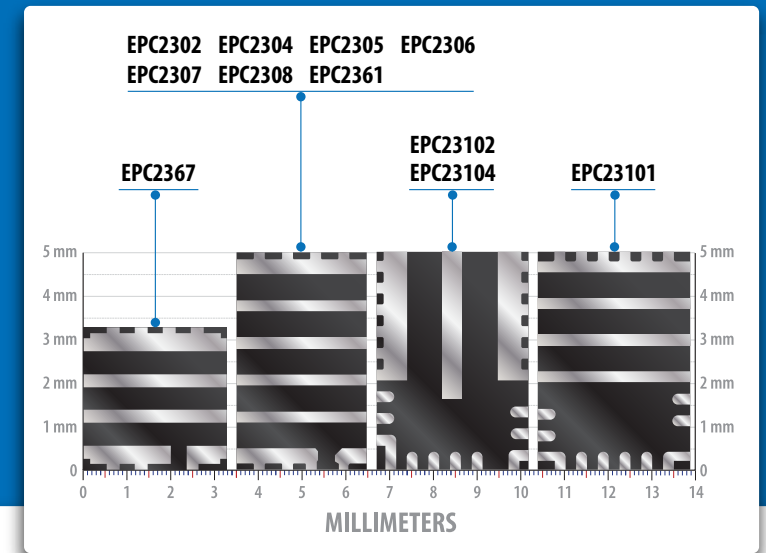
Step 3: Click on highlighted parts for details

Step 1: Choose a category

Integrated Circuits Commercial **Automotive** Rad-Hard

Step 2: Choose voltage

15 65 80 **100** 160



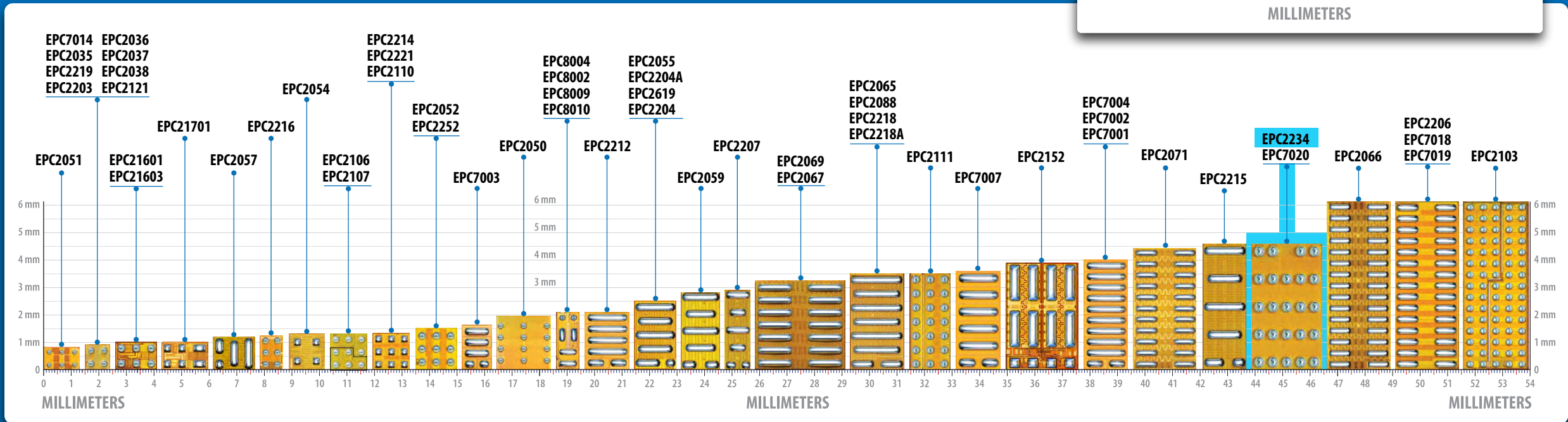
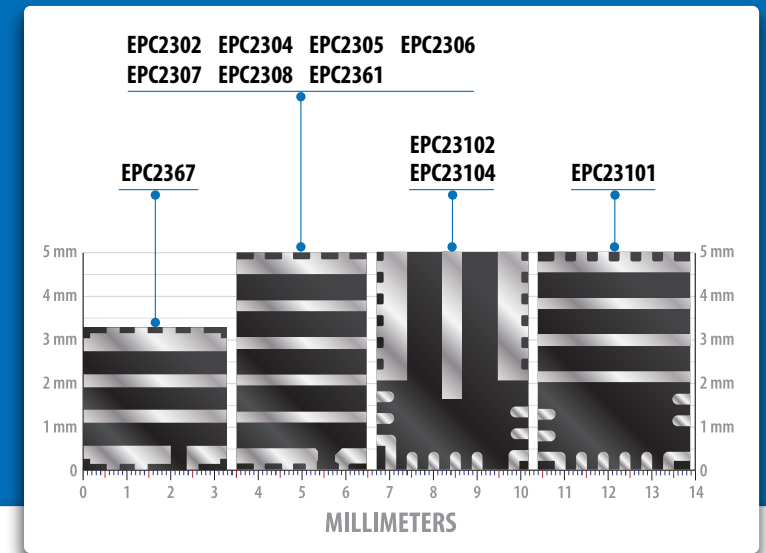
Step 3: Click on highlighted parts for details

Step 1: Choose a category

Integrated Circuits Commercial **Automotive** Rad-Hard

Step 2: Choose voltage

15 65 80 100 **160**



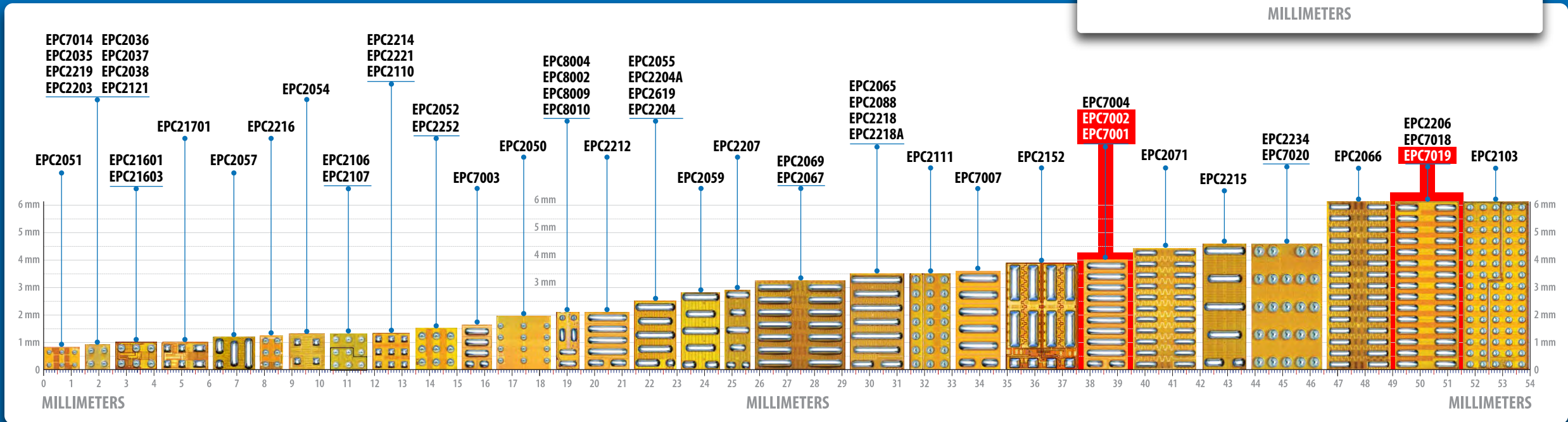
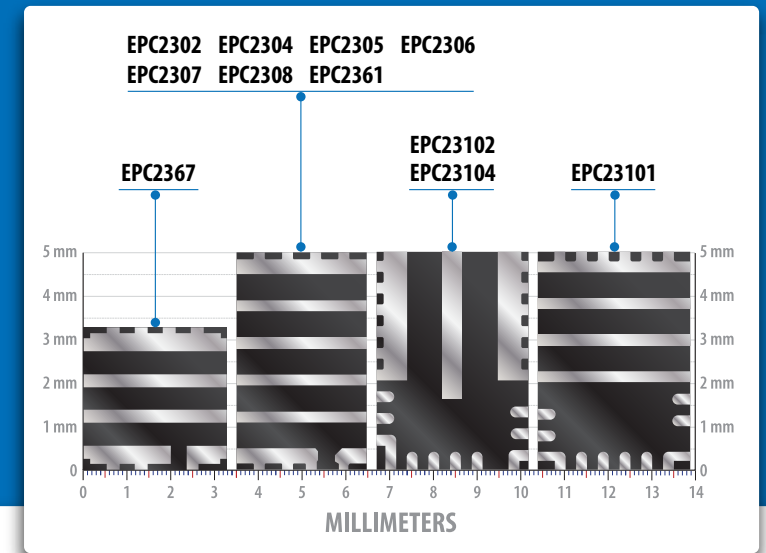
Step 3: Click on highlighted parts for details

Step 1: Choose a category

Integrated Circuits Commercial Automotive **Rad-Hard**

Step 2: Choose voltage

40 60 100 200



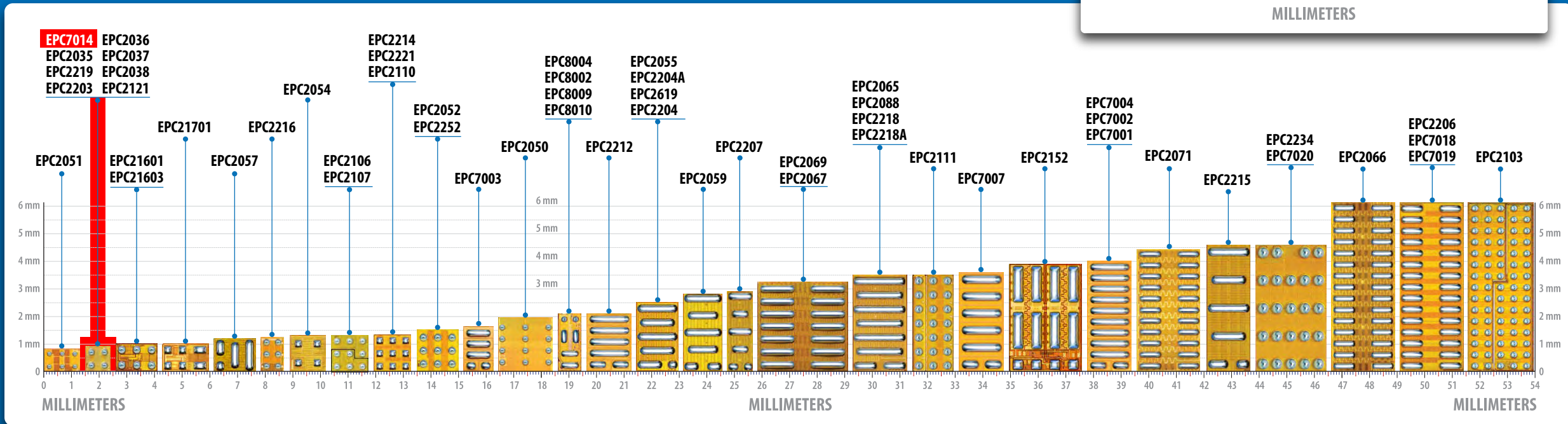
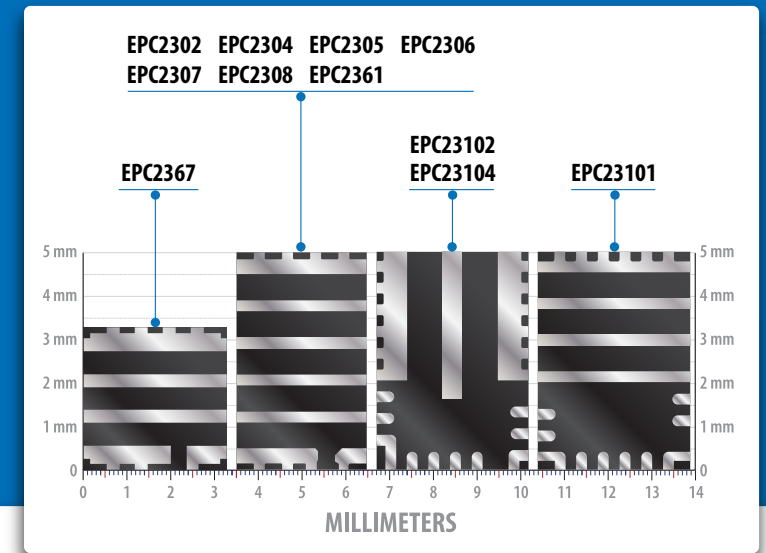
Step 3: Click on highlighted parts for details

Step 1: Choose a category

Integrated Circuits Commercial Automotive **Rad-Hard**

Step 2: Choose voltage

40 **60** 100 200



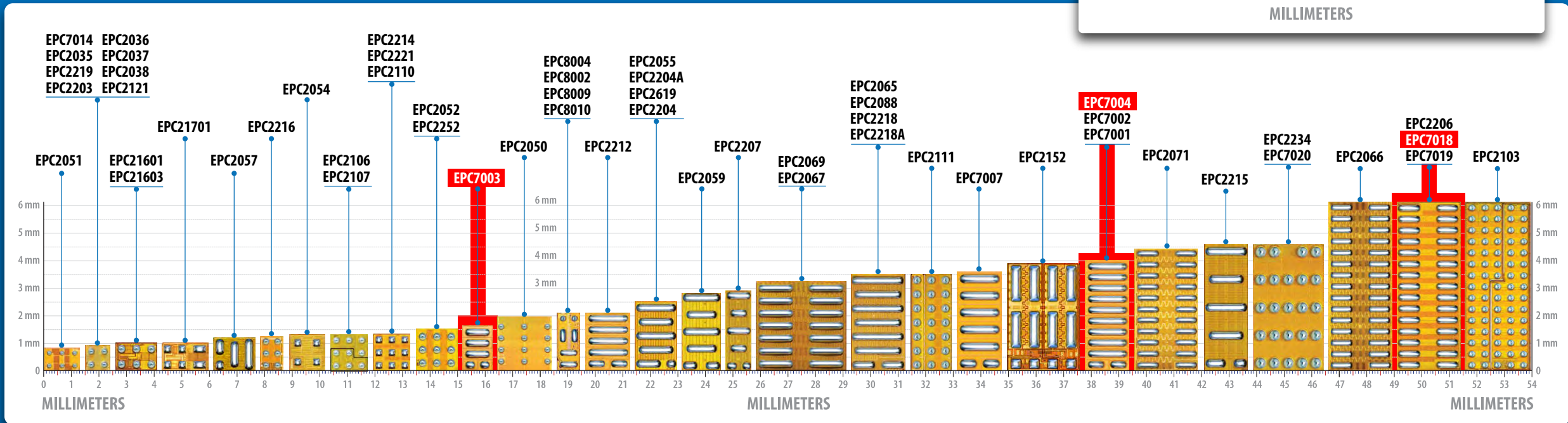
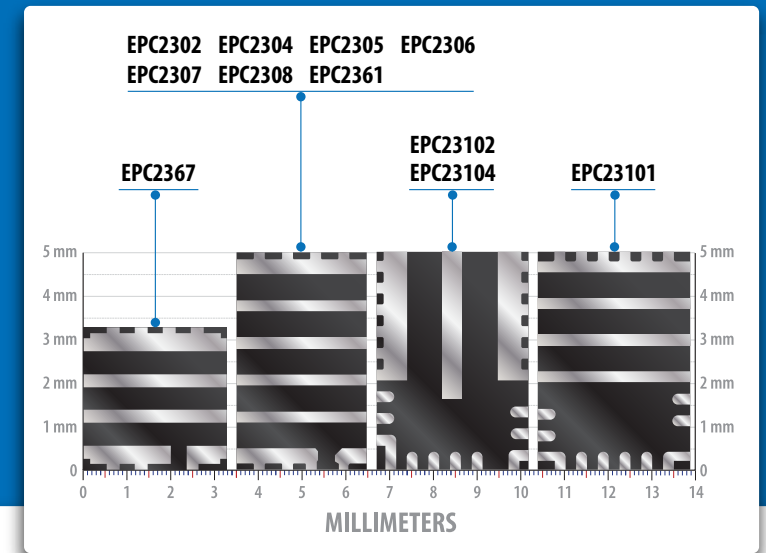
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Step 1: Choose a category

Integrated Circuits Commercial Automotive **Rad-Hard**

Step 2: Choose voltage

40 60 **100** 200



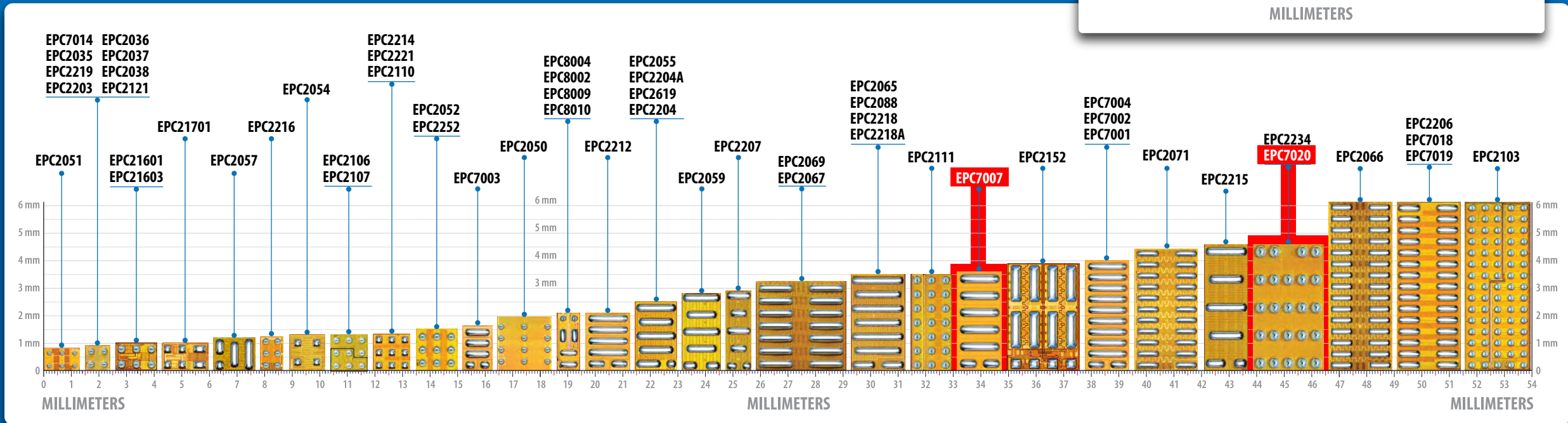
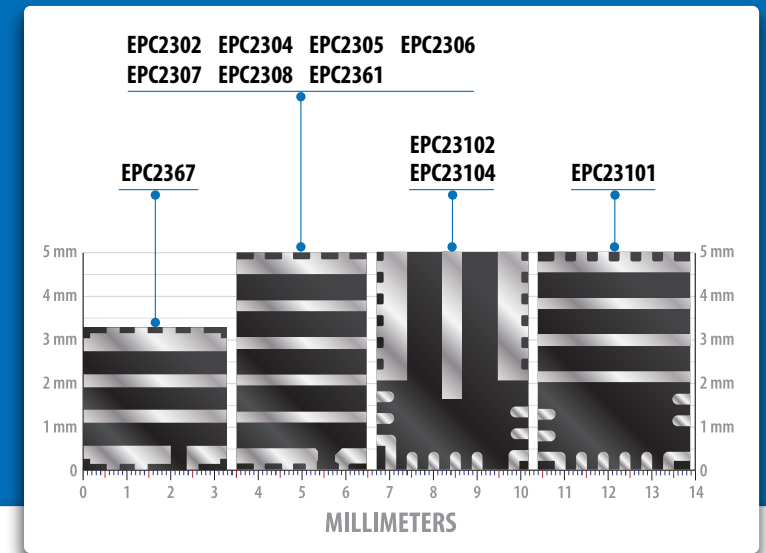
Step 3: Click on highlighted parts for details

Step 1: Choose a category

Integrated Circuits Commercial Automotive **Rad-Hard**

Step 2: Choose voltage

40 60 100 **200**



Step 3: Click on highlighted parts for details

EPC2051: 100 V, 25 mΩ

Commercial

EPC2051

V_{DS} , 100 V

Typical $R_{DS(on)}$, 20 mΩ

Max $R_{DS(on)}$, 25 mΩ

I_D , 1.7 A

Pulsed I_D , 37 A

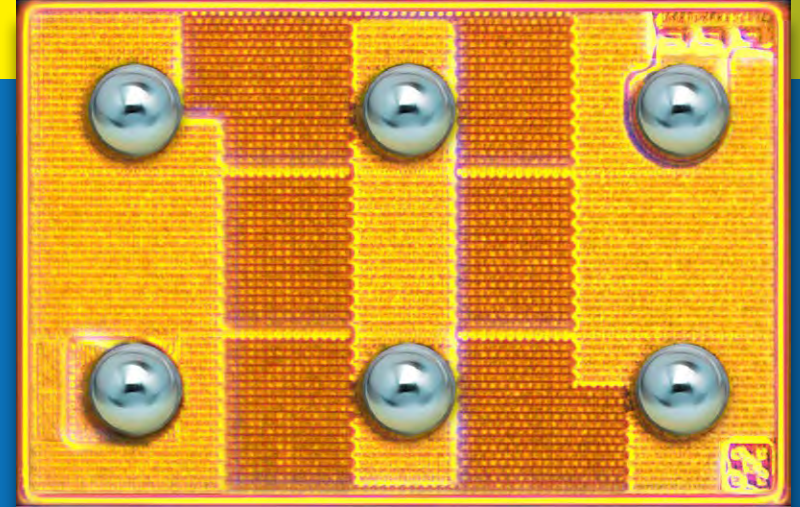
Typical Q_G , 1.8 nC

Typical Q_{GD} , 0.3 nC

Typical Q_{OSS} , 7.3 nC

Typical C_{OSS} , 86 pF

$R_{\theta JC}$, 3.8°C/W



1.3 x 0.85 mm
(1.10 mm²)

Half
Bridge
Eval
Board



Scan for:

- Full Datasheet
- Half-Bridge Evaluation Board: EPC9091, 100 V, 5 A



←
BACK

**EPC7014: 60 V, 340 mΩ
(Rad Hard)**

EPC2035: 60 V, 45 mΩ

EPC2219: 65 V, 3300 mΩ
(Automotive)

EPC2203: 80 V, 80 mΩ
(Automotive)

EPC2036: 100 V, 73 mΩ

EPC2037: 100 V, 550 mΩ

EPC2038: 100 V, 3300 mΩ

EPC2121: 100 V, 2.5/18 A
Bidirectional

Rad-Hard

EPC7014

V_{DS} , 60 V

Typical $R_{DS(on)}$, 240 mΩ

Max $R_{DS(on)}$, 340 mΩ

I_D , 2.4 A

Pulsed I_D , 4 A

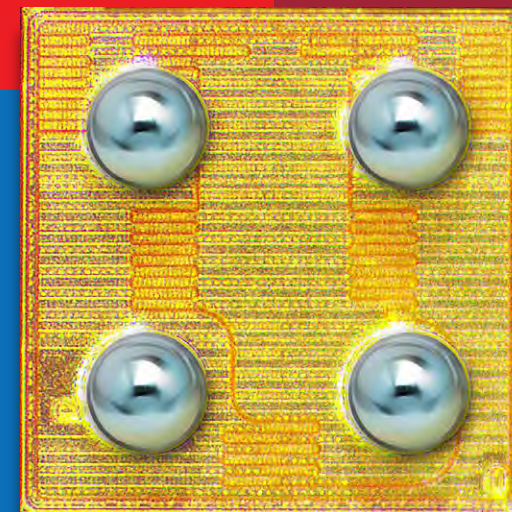
Typical Q_G , 142 pC

Typical Q_{GD} , 25 pC

Typical Q_{OSS} , 764 pC

Typical C_{OSS} , 17 pF

$R_{\theta JC}$, 7.1°C/W



0.9 x 0.9 mm
(0.81 mm²)

Scan for:

• Full Datasheet



← BACK

Commercial

EPC7014: 60 V, 340 mΩ
(Rad Hard)

EPC2035: 60 V, 45 mΩ

EPC2219: 65 V, 3300 mΩ
(Automotive)

EPC2203: 80 V, 80 mΩ
(Automotive)

EPC2036: 100 V, 73 mΩ

EPC2037: 100 V, 550 mΩ

EPC2038: 100 V, 3300 mΩ

EPC2121: 100 V, 2.5/18 A
Bidirectional

EPC2035

V_{DS} , 60 V

Typical $R_{DS(on)}$, 35 mΩ

Max $R_{DS(on)}$, 45 mΩ

I_D , 1.7 A

Pulsed I_D , 24 A

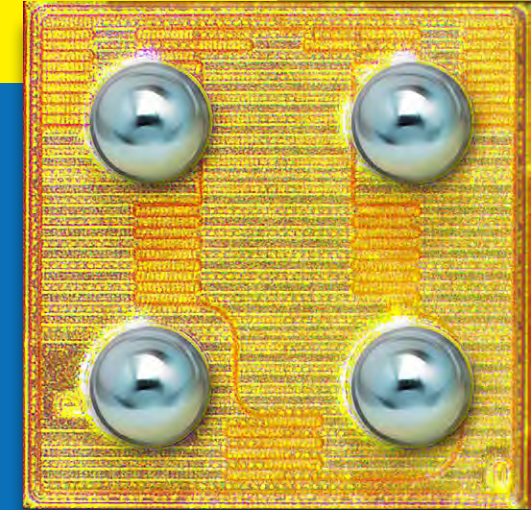
Typical Q_G , 880 pC

Typical Q_{GD} , 160 pC

Typical Q_{OSS} , 2600 pC

Typical C_{OSS} , 60 pF

$R_{\theta JC}$, 6.5°C/W



0.9 x 0.9 mm
(0.81 mm²)

Half
Bridge
Eval
Board



Scan for:

- Full Datasheet
- Half-Bridge Evaluation Board: EPC9049, 60 V, 4 A



BACK

Automotive

EPC7014: 60 V, 340 mΩ
(Rad Hard)

EPC2035: 60 V, 45 mΩ

**EPC2219: 65 V, 3300 mΩ
(Automotive)**

EPC2203: 80 V, 80 mΩ
(Automotive)

EPC2036: 100 V, 73 mΩ

EPC2037: 100 V, 550 mΩ

EPC2038: 100 V, 3300 mΩ

EPC2121: 100 V, 2.5/18 A
Bidirectional

EPC2219

V_{DS} , 65 V

Typical $R_{DS(on)}$, 1700 mΩ

Max $R_{DS(on)}$, 3300 mΩ

I_D , 0.5 A

Pulsed I_D , 0.5 A

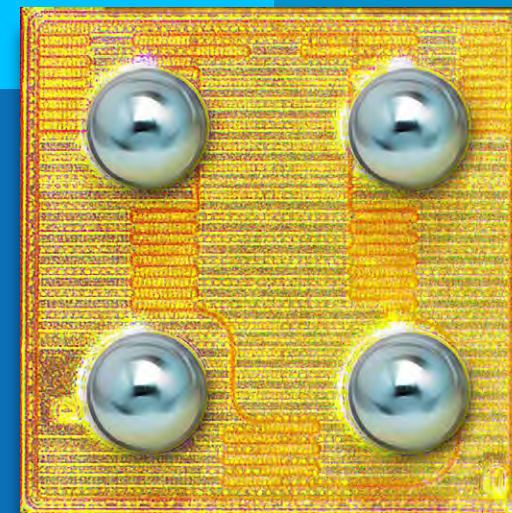
Typical Q_G , 49 pC

Typical Q_{GD} , 3.7 pC

Typical Q_{OSS} , 114 pC

Typical C_{OSS} , 2 pF

$R_{\theta JC}$, 20°C/W



0.9 x 0.9 mm
(0.81 mm²)

Scan for:

• Full Datasheet



BACK

Automotive

EPC7014: 60 V, 340 mΩ
(Rad Hard)

EPC2035: 60 V, 45 mΩ

EPC2219: 65 V, 3300 mΩ
(Automotive)

**EPC2203: 80 V, 80 mΩ
(Automotive)**

EPC2036: 100 V, 73 mΩ

EPC2037: 100 V, 550 mΩ

EPC2038: 100 V, 3300 mΩ

EPC2121: 100 V, 2.5/18 A
Bidirectional

EPC2203

V_{DS} , 80 V

Typical $R_{DS(on)}$, 53 mΩ

Max $R_{DS(on)}$, 80 mΩ

I_D , 1.7 A

Pulsed I_D , 17 A

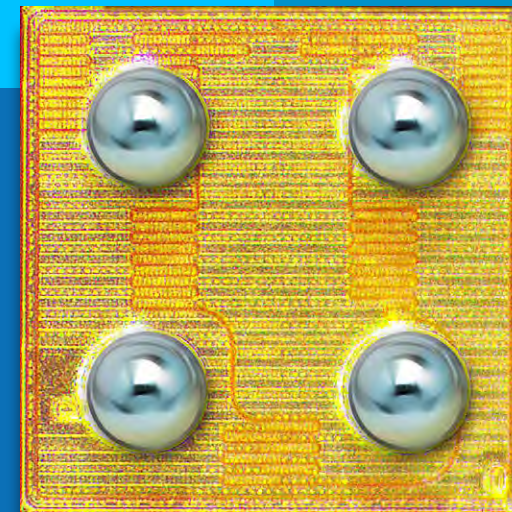
Typical Q_G , 670 pC

Typical Q_{GD} , 120 pC

Typical Q_{OSS} , 3600 pC

Typical C_{OSS} , 47 pF

$R_{\theta JC}$, 6.5°C/W



0.9 x 0.9 mm
(0.81 mm²)

Scan for:

• Full Datasheet



BACK

Commercial

EPC7014: 60 V, 340 mΩ
(Rad Hard)

EPC2035: 60 V, 45 mΩ

EPC2219: 65 V, 3300 mΩ
(Automotive)

EPC2203: 80 V, 80 mΩ
(Automotive)

EPC2036: 100 V, 73 mΩ

EPC2037: 100 V, 550 mΩ

EPC2038: 100 V, 3300 mΩ

EPC2121: 100 V, 2.5/18 A
Bidirectional

EPC2036

V_{DS} , 100 V

Typical $R_{DS(on)}$, 62 mΩ

Max $R_{DS(on)}$, 73 mΩ

I_D , 1.7 A

Pulsed I_D , 18 A

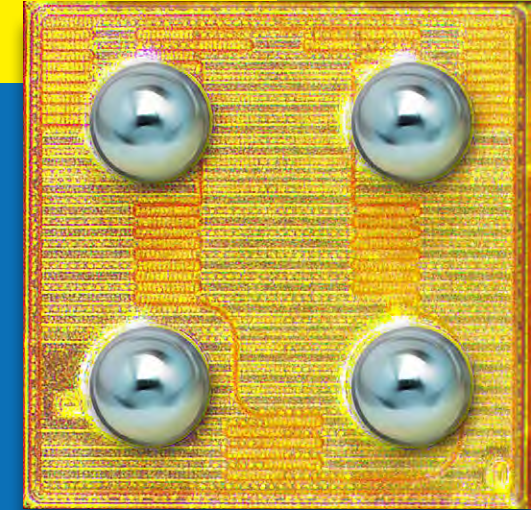
Typical Q_G , 700 pC

Typical Q_{GD} , 140 pC

Typical Q_{OSS} , 3900 pC

Typical C_{OSS} , 50 pF

$R_{\theta JC}$, 6°C/W



0.9 x 0.9 mm
(0.81 mm²)

Half
Bridge
Eval
Board



Scan for:

- Full Datasheet
- Half-Bridge Evaluation Board: EPC9050, 100 V, 2.5 A



BACK

Commercial

EPC7014: 60 V, 340 mΩ
(Rad Hard)

EPC2035: 60 V, 45 mΩ

EPC2219: 65 V, 3300 mΩ
(Automotive)

EPC2203: 80 V, 80 mΩ
(Automotive)

EPC2036: 100 V, 73 mΩ

EPC2037: 100 V, 550 mΩ

EPC2038: 100 V, 3300 mΩ

EPC2121: 100 V, 2.5/18 A
Bidirectional

EPC2037

V_{DS} , 100 V

Typical $R_{DS(on)}$, 400 mΩ

Max $R_{DS(on)}$, 550 mΩ

I_D , 1.7 A

Pulsed I_D , 2.4 A

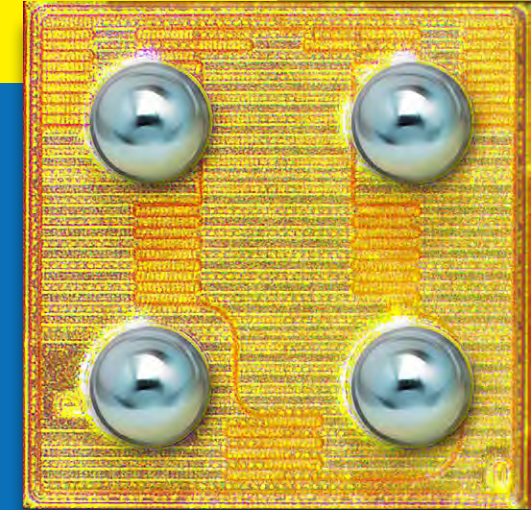
Typical Q_G , 115 pC

Typical Q_{GD} , 25 pC

Typical Q_{OSS} , 600 pC

Typical C_{OSS} , 6.5 pF

$R_{\theta JC}$, 14°C/W



0.9 x 0.9 mm
(0.81 mm²)

Half
Bridge
Eval
Board



Scan for:

- Full Datasheet
- Half-Bridge Evaluation Board: EPC9087, 100 V, 1 A



←
BACK

Commercial

EPC7014: 60 V, 340 mΩ
(Rad Hard)

EPC2035: 60 V, 45 mΩ

EPC2219: 65 V, 3300 mΩ
(Automotive)

EPC2203: 80 V, 80 mΩ
(Automotive)

EPC2036: 100 V, 73 mΩ

EPC2037: 100 V, 550 mΩ

EPC2038: 100 V, 3300 mΩ

EPC2121: 100 V, 2.5/18 A
Bidirectional

EPC2038

V_{DS} , 100 V

Typical $R_{DS(on)}$, 2100 mΩ

Max $R_{DS(on)}$, 3300 mΩ

I_D , 0.5 A

Pulsed I_D , 0.5 A

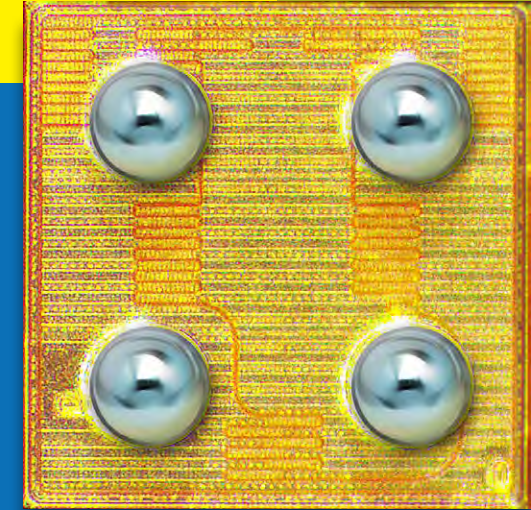
Typical Q_G , 44 pC

Typical Q_{GD} , 4 pC

Typical Q_{OSS} , 134 pC

Typical C_{OSS} , 1.6 pF

$R_{\theta JC}$, 27°C/W



0.9 x 0.9 mm
(0.81 mm²)

Scan for:

• Full Datasheet



BACK

Commercial

EPC7014: 60 V, 340 mΩ
(Rad Hard)

EPC2035: 60 V, 45 mΩ

EPC2219: 65 V, 3300 mΩ
(Automotive)

EPC2203: 80 V, 80 mΩ
(Automotive)

EPC2036: 100 V, 73 mΩ

EPC2037: 100 V, 550 mΩ

EPC2038: 100 V, 3300 mΩ

**EPC2121: 100 V, 2.5/18 A
Bidirectional**

EPC2121

$V_{DS} = V_{DD}$, 100 V

Typical $R_{DD(on)}$, 50 mΩ

Max $R_{DD(on)}$, 78 mΩ

I_D , 2.5 A

Pulsed I_D , 18 A

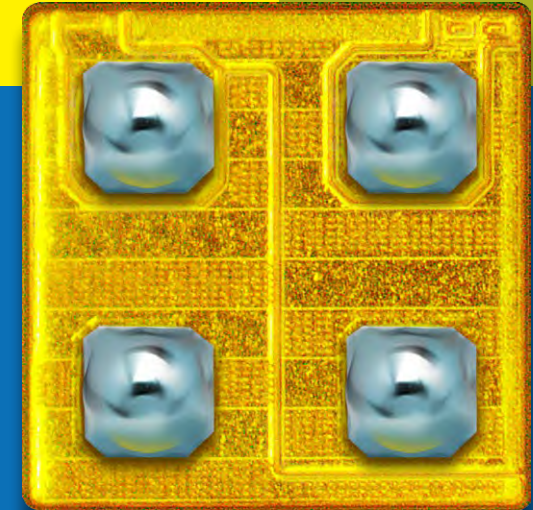
Typical Q_G , 101 nC

Typical Q_{GD} , 0.16 nC

Typical Q_{OSS} , 4.2 nC

Typical C_{OSS} , 54 pF

$R_{\theta JC}$, 4.8 °C/W



0.9 x 0.9 mm
(0.81 mm²)

Half
Bridge
Eval
Board



Scan for:

- Full Datasheet
- Application-Specific
Evaluation Board: EPC9182,
AC voltage / solid-state relay



BACK

Integrated Circuits

EPC21601: 40 V, 15 A,
3.3 V Logic,
eToF™ Laser Driver IC

EPC21603: 40 V, 15 A,
LVDS Logic,
eToF™ Laser Driver IC

EPC21601

V_{Laser} operating up to 30 V

15 A peak current

Switching frequency > 100 MHz

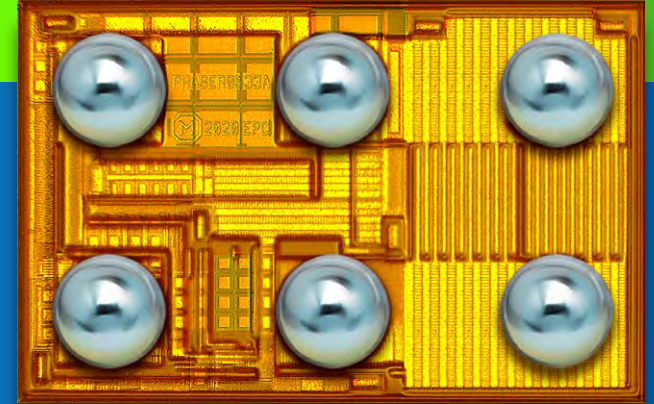
Typical voltage switching
time 750 ps

5 V nominal logic supply

3.3 V logic compatible
input control

1.5 ns minimum output
pulse width

3.5 ns delay time from input
to output



1.5 x 1.5 mm
(1.5 mm²)

Application
Specific
Eval Board



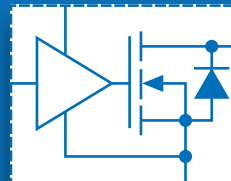
Scan for:

- Full Datasheet
- Application-Specific
Evaluation Board:
EPC9154, 40 V, 10 A High Current
Pulsed Laser Diode Driver



← **BACK**

View schematic



Integrated Circuits

EPC21601: 40 V, 15 A,
3.3 V Logic,
eToF™ Laser Driver IC

EPC21603: 40 V, 15 A,
LVDS Logic,
eToF™ Laser Driver IC

EPC21603

V_{Laser} operating up to 30 V

15 A peak current

Switching frequency > 100 MHz

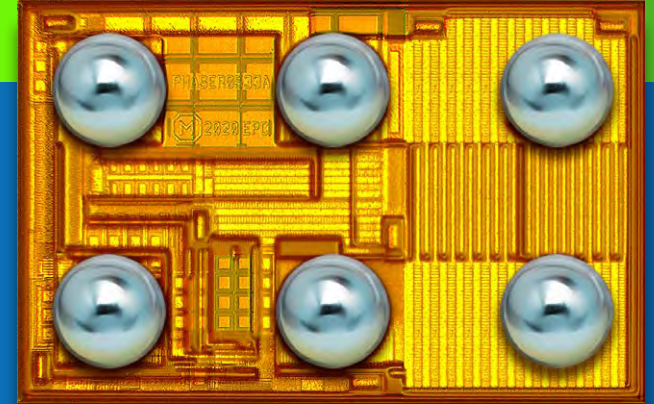
Typical voltage switching
time 750 ps

5 V nominal logic supply

LVDS logic compatible
input control

1.7 ns minimum output
pulse width

4 ns delay time from
input to output



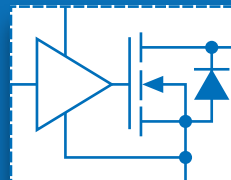
1.5 x 1.5 mm
(1.5 mm²)

Application
Specific
Eval Board



Scan for:

- Full Datasheet
- Application-Specific
Evaluation Board:
EPC9156, 40 V, 10 A High Current
Pulsed Laser Diode Driver



View schematic

← **BACK**

Integrated Circuits

EPC21701: 80 V, 15 A
eToF™ Laser Driver IC

EPC21701

V_{Laser} operating up to 60 V

15 A peak current

Switching frequency > 50 MHz

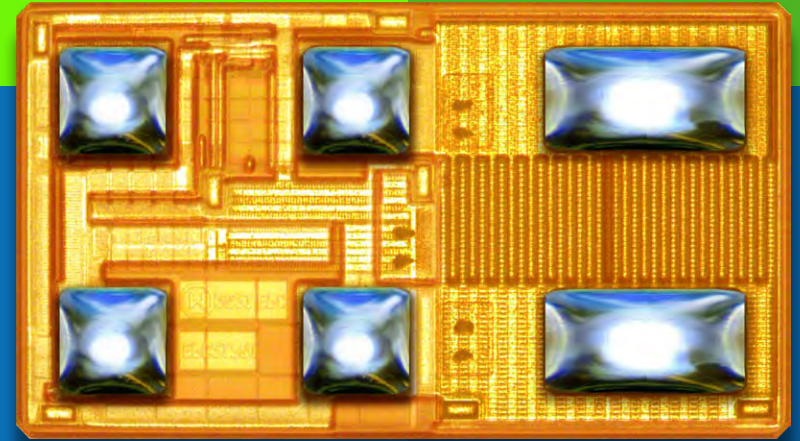
Typical voltage switching time 1 ns

5 V nominal logic supply

3.3 V logic compatible
input control

2 ns minimum output
pulse width

3.5 ns delay time from
input to output



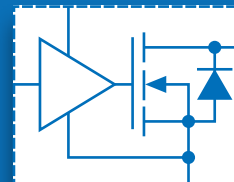
1.7 x 1 mm
(1.7 mm²)

Application
Specific
Eval Board



Scan for:

- Full Datasheet
- Application-Specific Evaluation Board: EPC9172, 60 V, 15 A High Current Pulsed Laser Diode Driver



View schematic

← **BACK**

EPC2216: 15 V, 26 mΩ

Automotive

EPC2216

V_{DS} , 15 V

Typical $R_{DS(on)}$, 20 mΩ

Max $R_{DS(on)}$, 26 mΩ

I_D , 3.4 A

Pulsed I_D , 28 A

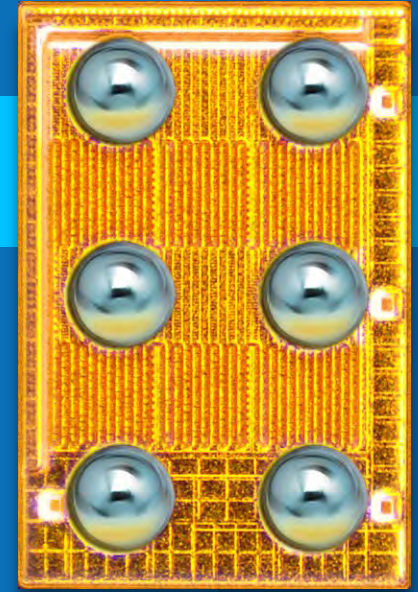
Typical Q_G , 0.87 nC

Typical Q_{GD} , 0.13 nC

Typical Q_{OSS} , 0.53 nC

Typical C_{OSS} , 66 pF

$R_{\theta JC}$, 5.7°C/W



0.85 x 1.2 mm
(1.02 mm²)

Application
Specific
Eval Board



Scan for:

- Full Datasheet
- Application-Specific Evaluation Board: EPC9144, 5 V High Current Pulsed Laser Diode Driver



←
BACK

EPC2054: 200 V, 43 mΩ

Commercial

EPC2054

V_{DS} , 200 V

Typical $R_{DS(on)}$, 32 mΩ

Max $R_{DS(on)}$, 43 mΩ

I_D , 3 A

Pulsed I_D , 32 A

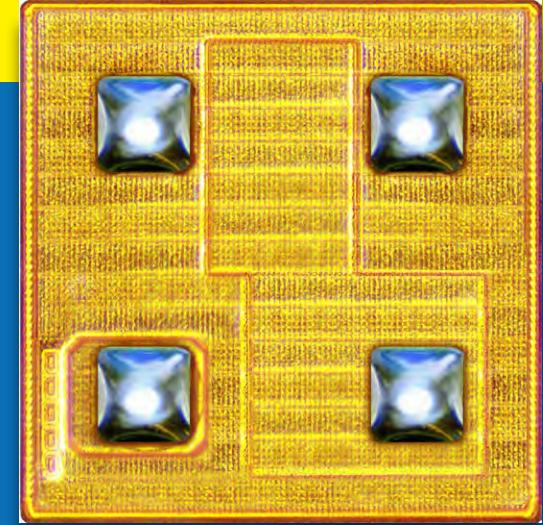
Typical Q_G , 2.9 nC

Typical Q_{GD} , 0.3 nC

Typical Q_{OSS} , 15 nC

Typical C_{OSS} , 89 pF

$R_{\theta JC}$, 2.9°C/W



1.3 x 1.3 mm
(1.69 mm²)

Half
Bridge
Eval
Board



Scan for:

- Full Datasheet
- Half-Bridge Evaluation Board: EPC9094, 200 V, 2 A



←
BACK

Integrated Circuits

EPC2106: 100 V,
Symmetrical Half Bridge,
70 mΩ

EPC2107: 100 V
Symmetrical Half Bridge,
390/3300 mΩ

EPC2106

V_{DS} , 100 V

Typical $R_{DS(on)}$, 55 mΩ

Max $R_{DS(on)}$, 70 mΩ

I_D , 1.7 A

Pulsed I_D , 18 A

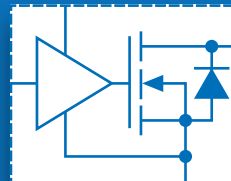
Typical Q_G , 730 pC

Typical Q_{GD} , 140 pC

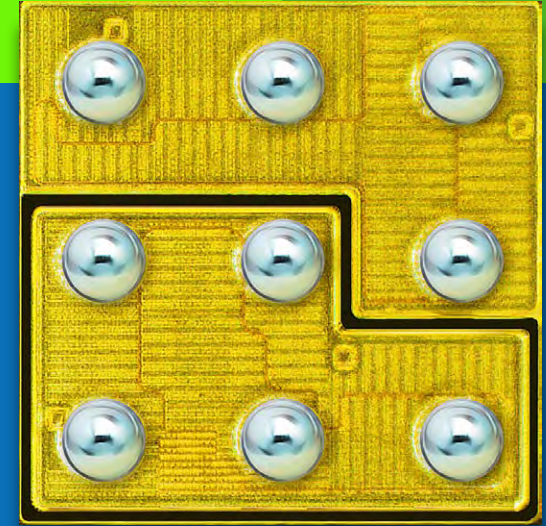
Typical Q_{OSS} , 3960 pC (Q1) /
4680 pC (Q2)

Typical C_{OSS} , 52 pF (Q1) /
61 pF (Q2)

$R_{\theta JC}$, 3°C/W



[View schematic](#)



1.35 x 1.35 mm
(1.82 mm²)

Half
Bridge
Eval
Board



Scan for:

- Full Datasheet
- Half-Bridge
Evaluation Board:
EPC9055, 100 V, 3 A



← BACK

Integrated Circuits

EPC2106: 100 V,
Symmetrical Half Bridge,
70 mΩ

EPC2107: 100 V
Symmetrical Half Bridge,
390/3300 mΩ

EPC2107

V_{DS} , 100 V

Typical $R_{DS(on)}$, 250 mΩ (Q1/Q2) /
2100 mΩ (Q3)

Max $R_{DS(on)}$, 390 mΩ (Q1/Q2) /
3300 mΩ (Q3)

I_D , 1.7 A (Q1/Q2) / 0.5 A (Q3)

Pulsed I_D , 3.8 A (Q1/Q2) / 0.5 A (Q3)

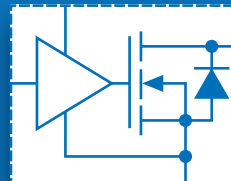
Typical Q_G , 190 pC (Q1/Q2) / 44 pC (Q3)

Typical Q_{GD} , 41 pC (Q1/Q2) / 4 pC (Q3)

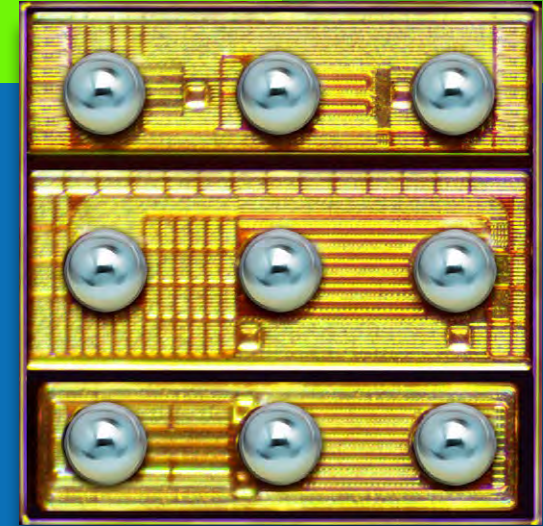
Typical Q_{OSS} , 900 pC (Q1) / 1250 pC (Q2)
134 pC (Q3)

Typical C_{OSS} , 9.2 pF (Q1)/
14 pF (Q2)
1.6 pF (Q3)

$R_{\theta JC}$, 6°C/W



View schematic



1.35 x 1.35 mm
(1.82 mm²)

Half
Bridge
Eval
Board



Scan for:

- Full Datasheet
- Half-Bridge Evaluation Board: EPC9063, 100 V, 1.5 A



← **BACK**

Automotive

**EPC2214: 80 V, 20 mΩ
(Automotive)**

**EPC2221: 100 V, 58 mΩ
Dual Common Source IC
(Automotive)**

**EPC2110: 120 V, 110 mΩ
Dual Common Source IC
(Integrated)**

EPC2214

V_{DS} , 80 V

Typical $R_{DS(on)}$, 15 mΩ

Max $R_{DS(on)}$, 20 mΩ

I_D , 10 A

Pulsed I_D , 60 A

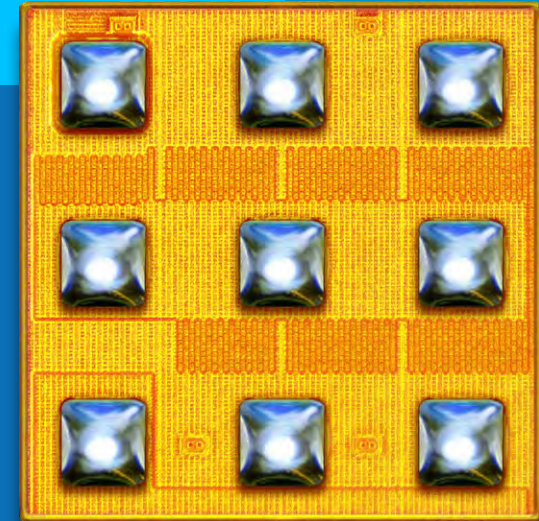
Typical Q_G , 1.8 nC

Typical Q_{GD} , 0.3 nC

Typical Q_{OSS} , 8 nC

Typical C_{OSS} , 129 pF

$R_{\theta JC}$, 2.7°C/W



1.35 x 1.35 mm
(1.82 mm²)

Scan for:

• Full Datasheet



BACK

Automotive

EPC2214: 80 V, 20 mΩ
(Automotive)

EPC2221: 100 V, 58 mΩ
Dual Common Source IC
(Automotive)

EPC2110: 120 V, 110 mΩ
Dual Common Source IC
(Integrated)

EPC2221

V_{DS} , 100 V

Typical $R_{DS(on)}$, 40 mΩ

Max $R_{DS(on)}$, 58 mΩ

I_D , 5 A

Pulsed I_D , 20 A

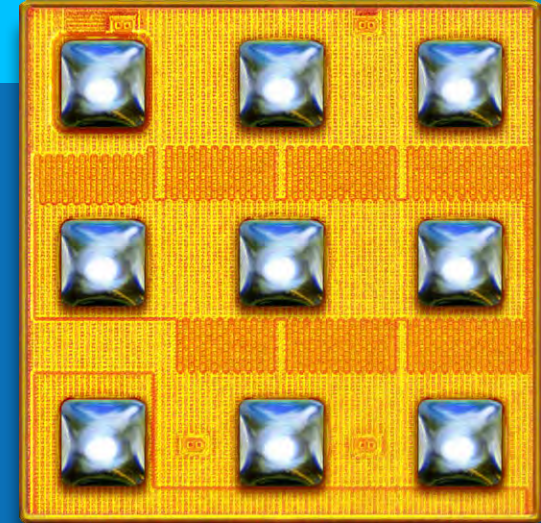
Typical Q_G , 0.85 nC

Typical Q_{GD} , 0.19 nC

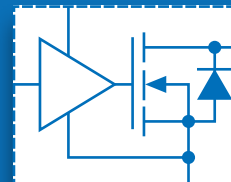
Typical Q_{OSS} , 4.7 nC

Typical C_{OSS} , 63 pF

$R_{\theta JC}$, 2.2°C/W



1.35 x 1.35 mm
(1.82 mm²)



[View schematic](#)

Scan for:
• Full Datasheet



← BACK

Integrated Circuits

EPC2214: 80 V, 20 mΩ
(Automotive)

EPC2221: 100 V, 58 mΩ
Dual Common Source IC
(Automotive)

EPC2110: 120 V, 110 mΩ
Dual Common Source IC
(Integrated)

EPC2110

V_{DS} , 120 V

Typical $R_{DS(on)}$, 80 mΩ

Max $R_{DS(on)}$, 110 mΩ

I_D , 3.4 A

Pulsed I_D , 20 A

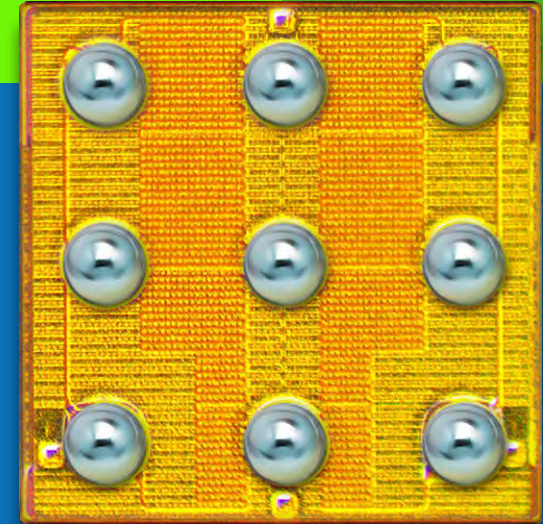
Typical Q_G , 0.8 nC

Typical Q_{GD} , 0.18 nC

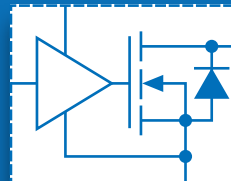
Typical Q_{OSS} , 5.3 nC

Typical C_{OSS} , 60 pF

$R_{\theta JC}$, 3°C/W



1.35 x 1.35 mm
(1.82 mm²)



[View schematic](#)

Scan for:
• Full Datasheet



[BACK](#)

Commercial

EPC2052: 100 V, 13.5 m Ω

EPC2252: 80 V, 11 m Ω
(Automotive)

EPC2052

V_{DS} , 100 V

Typical $R_{DS(on)}$, 10 m Ω

Max $R_{DS(on)}$, 13.5 m Ω

I_D , 8.2 A

Pulsed I_D , 74 A

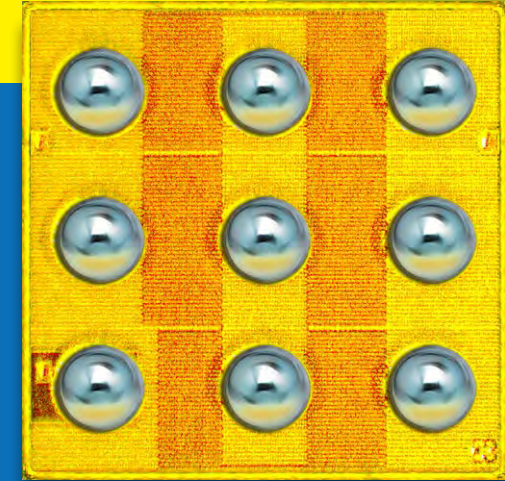
Typical Q_G , 3.5 nC

Typical Q_{GD} , 0.5 nC

Typical Q_{OSS} , 13 nC

Typical C_{OSS} , 195 pF

$R_{\theta JC}$, 2°C/W



1.5 x 1.5 mm
(2.25 mm²)

Half
Bridge
Eval
Board



Scan for:

- Full Datasheet
- Half-Bridge Evaluation Board:
EPC9092, 100 V, 5 A
- Application-Specific Evaluation Board:
EPC9162, Bidirectional 50 W (Boost) /
60 W (Buck)



←
BACK

EPC2052: 100 V, 13.5 m Ω

EPC2252: 80 V, 11 m Ω
(Automotive)

Automotive

EPC2252

V_{DS} , 80 V

Typical $R_{DS(on)}$, 8 m Ω

Max $R_{DS(on)}$, 11 m Ω

I_D , 8.2 A

Pulsed I_D , 100 A

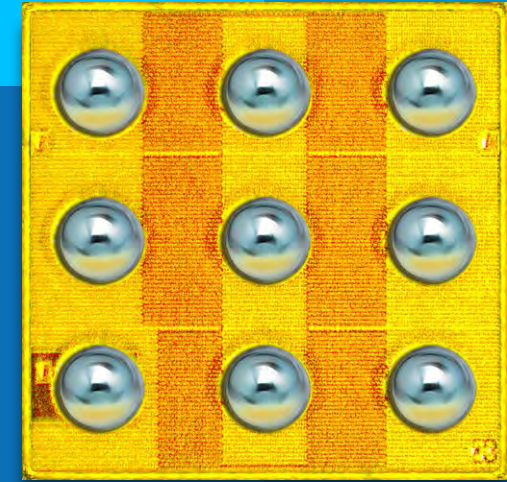
Typical Q_G , 3.5 nC

Typical Q_{GD} , 0.5 nC

Typical Q_{OSS} , 15 nC

Typical C_{OSS} , 190 pF

$R_{\theta JC}$, 1.6°C/W



1.5 x 1.5 mm
(2.25 mm²)

Scan for:

- Full Datasheet
- Application Specific Evaluation Board: EPC9179, 80 V, 75 A Laser Diode Driver



← **BACK**

EPC7003: 100 V, 30 mΩ

Rad-Hard

EPC7003

V_{DS} , 100 V

Typical $R_{DS(on)}$, 18 mΩ

Max $R_{DS(on)}$, 30 mΩ

I_D , 10 A

Pulsed I_D , 42 A

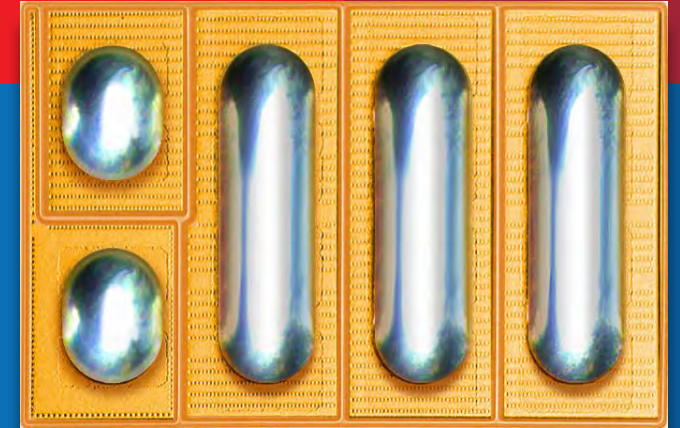
Typical Q_G , 1.8 nC

Typical Q_{GD} , 0.3 nC

Typical Q_{OSS} , 9.4 nC

Typical C_{OSS} , 119 pF

$R_{\theta JC}$, 2.8°C/W



1.7 x 1.1 mm
(1.87 mm²)

← **BACK**

Scan for:
• Full Datasheet



EPC2050: 350 V, 80 mΩ

Commercial

EPC2050

V_{DS} , 350 V

Typical $R_{DS(on)}$, 55 mΩ

Max $R_{DS(on)}$, 80 mΩ

I_D , 6.3 A

Pulsed I_D , 26 A

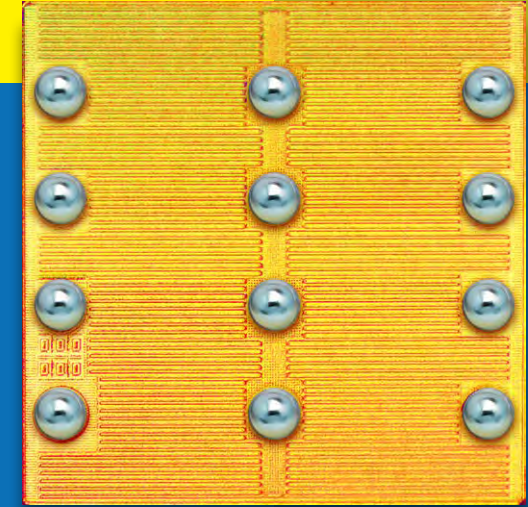
Typical Q_{GD} , 2.9 nC

Typical Q_{OSS} , 0.3 nC

Typical C_{OSS} , 35 nC

Typical C_{OSS} , 81 pF

$R_{\theta JC}$, 1.1°C/W



1.95 x 1.95 mm
(3.8 mm²)

Half
Bridge
Eval
Board



Scan for:

- Full Datasheet
- Half-Bridge Evaluation Board: EPC90121, 350 V, 4 A



←
BACK

Commercial

EPC8004: 40 V, 110 mΩ

EPC8002: 65 V, 480 mΩ

EPC8009: 65 V, 130 mΩ

EPC8010: 100 V, 160 mΩ

EPC8004

V_{DS} , 40 V

Typical $R_{DS(on)}$, 80 mΩ

Max $R_{DS(on)}$, 110 mΩ

I_D , 4 A

Pulsed I_D , 7.5 A

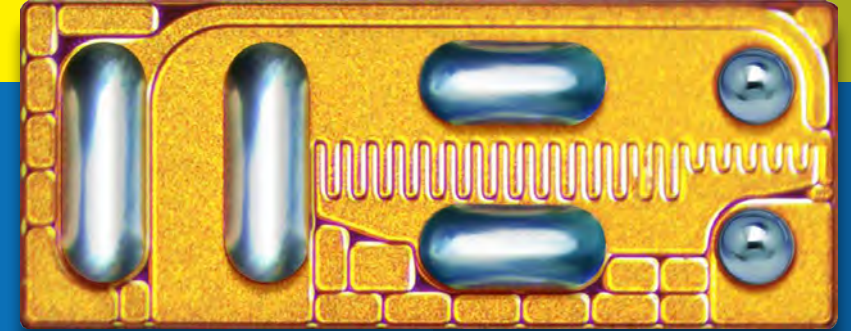
Typical Q_G , 370 pC

Typical Q_{GD} , 47 pC

Typical Q_{OSS} , 630 pC

Typical C_{OSS} , 23 pF

$R_{\theta JC}$, 8.2°C/W



2.05 x 0.85 mm
(1.74 mm²)

Half
Bridge
Eval
Board



Scan for:

- Full Datasheet
- Half-Bridge Evaluation Board: EPC9066, 40 V, 2.7 A



BACK

Commercial

EPC8004: 40 V, 110 mΩ

EPC8002: 65 V, 480 mΩ

EPC8009: 65 V, 130 mΩ

EPC8010: 100 V, 160 mΩ

EPC8002

V_{DS} , 65 V

Typical $R_{DS(on)}$, 380 mΩ

Max $R_{DS(on)}$, 480 mΩ

I_D , 2 A

Pulsed I_D , 2 A

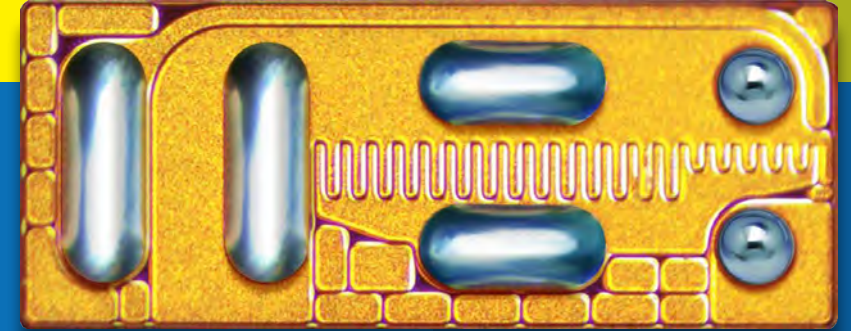
Typical Q_G , 133 pC

Typical Q_{GD} , 15 pC

Typical Q_{OSS} , 334 pC

Typical C_{OSS} , 6.7 pF

$R_{\theta JC}$, 8.2°C/W



2.05 x 0.85 mm
(1.74 mm²)

Half
Bridge
Eval
Board



Scan for:

- Full Datasheet
- Half-Bridge Evaluation Board: EPC9022, 65 V, 1.6 A



BACK

Commercial

EPC8004: 40 V, 110 mΩ

EPC8002: 65 V, 480 mΩ

EPC8009: 65 V, 130 mΩ

EPC8010: 100 V, 160 mΩ

EPC8009

V_{DS} , 65 V

Typical $R_{DS(on)}$, 90 mΩ

Max $R_{DS(on)}$, 130 mΩ

I_D , 4 A

Pulsed I_D , 7.5 A

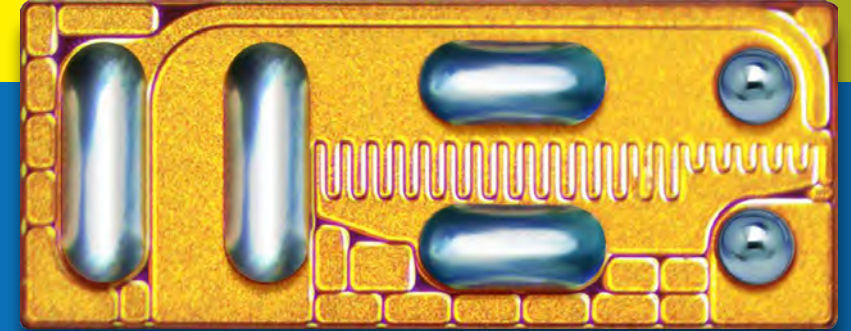
Typical Q_G , 370 pC

Typical Q_{GD} , 55 pC

Typical Q_{OSS} , 940 pC

Typical C_{OSS} , 19 pF

$R_{\theta JC}$, 8.2°C/W



2.05 x 0.85 mm
(1.74 mm²)

Half
Bridge
Eval
Board



Scan for:

- Full Datasheet
- Half-Bridge Evaluation Board: EPC9067, 65 V, 2.7 A



BACK

Commercial

EPC8004: 40 V, 110 mΩ

EPC8002: 65 V, 480 mΩ

EPC8009: 65 V, 130 mΩ

EPC8010: 100 V, 160 mΩ

EPC8010

V_{DS} , 100 V

Typical $R_{DS(on)}$, 120 mΩ

Max $R_{DS(on)}$, 160 mΩ

I_D , 4 A

Pulsed I_D , 7.5 A

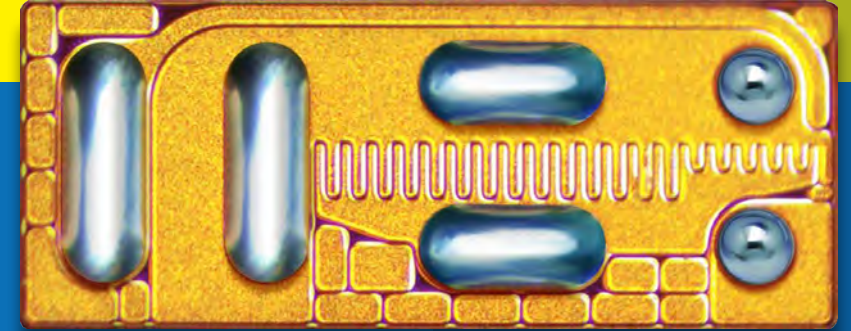
Typical Q_G , 360 pC

Typical Q_{GD} , 60 pC

Typical Q_{OSS} , 2200 pC

Typical C_{OSS} , 25 pF

$R_{\theta JC}$, 8.2°C/W



2.05 x 0.85 mm
(1.74 mm²)

Half
Bridge
Eval
Board



Scan for:

- Full Datasheet
- Half-Bridge Evaluation Board: EPC9068, 100 V, 2.7 A



BACK

Automotive

EPC2212: 100 V, 13.5 mΩ

EPC2212

V_{DS} , 100 V

Typical $R_{DS(on)}$, 10 mΩ

Max $R_{DS(on)}$, 13.5 mΩ

I_D , 18 A

Pulsed I_D , 7.5 A

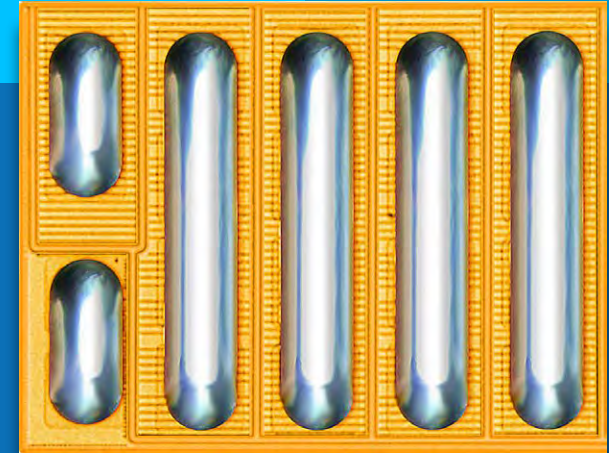
Typical Q_G , 3.2 nC

Typical Q_{GD} , 0.6 nC

Typical Q_{OSS} , 18 nC

Typical C_{OSS} , 238 pF

$R_{\theta JA}$, 2°C/W



2.1 x 1.6 mm
(3.36 mm²)

Scan for:

- Full Datasheet



BACK

Commercial

EPC2055: 40 V, 3.6 mΩ

EPC2204A: 80 V, 6 mΩ
(Automotive)

EPC2619: 100 V, 4.2 mΩ

EPC2204: 100 V, 6 mΩ

EPC2055

V_{DS} , 40 V

Typical $R_{DS(on)}$, 3 mΩ

Max $R_{DS(on)}$, 3.6 mΩ

I_D , 29 A

Pulsed I_D , 161 A

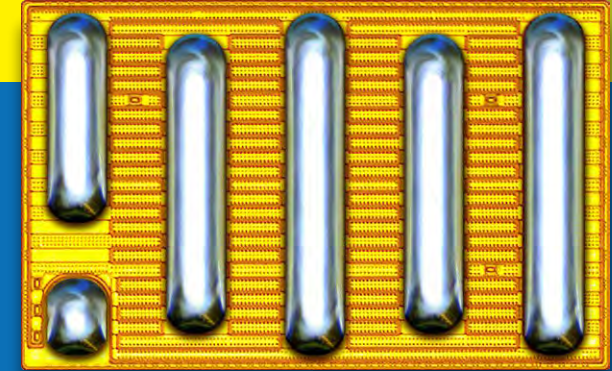
Typical Q_G , 6.6 nC

Typical Q_{GD} , 0.7 nC

Typical Q_{OSS} , 13 nC

Typical C_{OSS} , 408 pF

$R_{\theta JC}$, 1°C/W



2.5 x 1.5 mm
(3.75 mm²)

Half
Bridge
Eval
Board



Scan for:

- Full Datasheet
- Half-Bridge Evaluation Board:
EPC90132, 40 V, 25 A
- Application-Specific Evaluation Boards:
 - EPC91108, 250 W High Power Density Synchronous Buck
 - EPC9160, 9 V–24 V to Dual Output 5 V/
3.3 V Synchronous Buck Converter



←
BACK

Automotive

EPC2055: 40 V, 3.6 mΩ

EPC2204A: 80 V, 6 mΩ
(Automotive)

EPC2619: 100 V, 4.2 mΩ

EPC2204: 100 V, 6 mΩ

EPC2204A

V_{DS} , 80 V

Typical $R_{DS(on)}$, 4.4 mΩ

Max $R_{DS(on)}$, 6 mΩ

I_D , 29 A

Pulsed I_D , 167 A

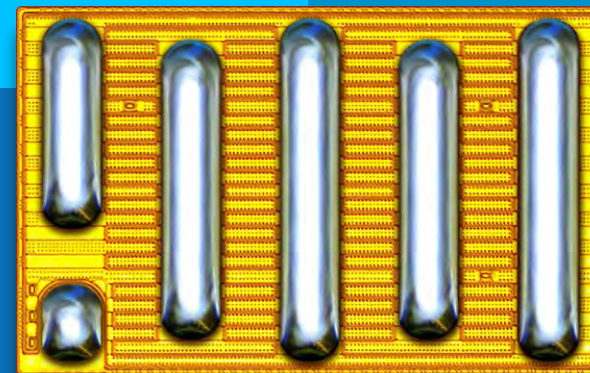
Typical Q_G , 5.7 nC

Typical Q_{GD} , 0.8 nC

Typical Q_{OSS} , 25 nC

Typical C_{OSS} , 304 pF

$R_{\theta JC}$, 1°C/W



2.5 x 1.5 mm
(3.75 mm²)

Scan for:

- Full Datasheet
- Application Specific Evaluation Board: EPC9181, 80 V, 125 A Laser Diode Driver



BACK

Commercial

EPC2055: 40 V, 3.6 mΩ

EPC2204A: 80 V, 6 mΩ
(Automotive)

EPC2619: 100 V, 4.2 mΩ

EPC2204: 100 V, 6 mΩ

EPC2619

V_{DS} , 100 V

Typical $R_{DS(on)}$, 3.3 mΩ

Max $R_{DS(on)}$, 4.2 mΩ

I_D , 29 A

Pulsed I_D , 164 A

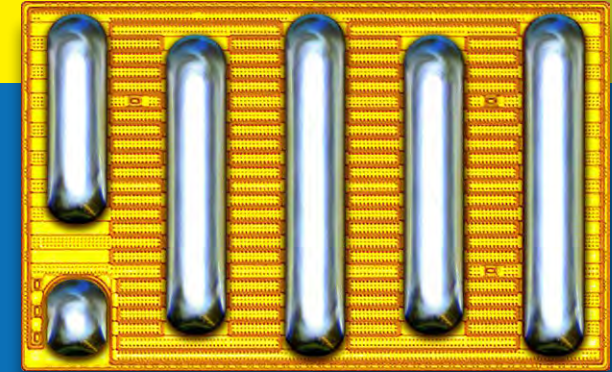
Typical Q_G , 8.5 nC

Typical Q_{GD} , 1 nC

Typical Q_{OSS} , 27 nC

Typical C_{OSS} , 350 pF

$R_{\theta JC}$, 1°C/W



2.5 x 1.5 mm
(3.75 mm²)

Half
Bridge
Eval
Board



Scan for:

- Full Datasheet
- Half-Bridge Evaluation Board:
EPC90153, 100 V, 20 A

Application-Specific Evaluation Boards:

- EPC9159, 1 kW 48 V/12 V, LLC
- EPC9195, 200 W Single-phase, Buck Converter
- EPC9193, 40 A_{RMS}, 3-Phase Motor Drive Inverter



←
BACK

Commercial

EPC2055: 40 V, 3.6 mΩ

EPC2204A: 80 V, 6 mΩ
(Automotive)

EPC2619: 100 V, 4.2 mΩ

EPC2204: 100 V, 6 mΩ

EPC2204

V_{DS} , 100 V

Typical $R_{DS(on)}$, 4.4 mΩ

Max $R_{DS(on)}$, 6 mΩ

I_D , 29 A

Pulsed I_D , 167 A

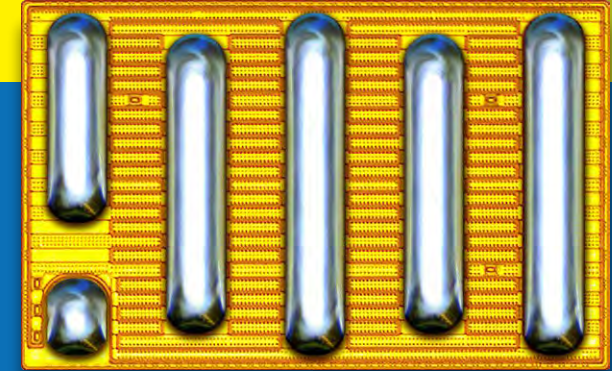
Typical Q_G , 5.7 nC

Typical Q_{GD} , 1.8 nC

Typical Q_{OSS} , 25 nC

Typical C_{OSS} , 304 pF

$R_{\theta JC}$, 1°C/W



2.5 x 1.5 mm
(3.75 mm²)

Half
Bridge
Eval
Board



Scan for:

- Full Datasheet
- Half-Bridge Evaluation Board: EPC9097, 100 V, 20 A



← **BACK**

EPC2059: 170 V, 9 m Ω

Commercial

EPC2059

V_{DS} , 170 V

Typical $R_{DS(on)}$, 6.8 m Ω

Max $R_{DS(on)}$, 9 m Ω

I_D , 24 A

Pulsed I_D , 102 A

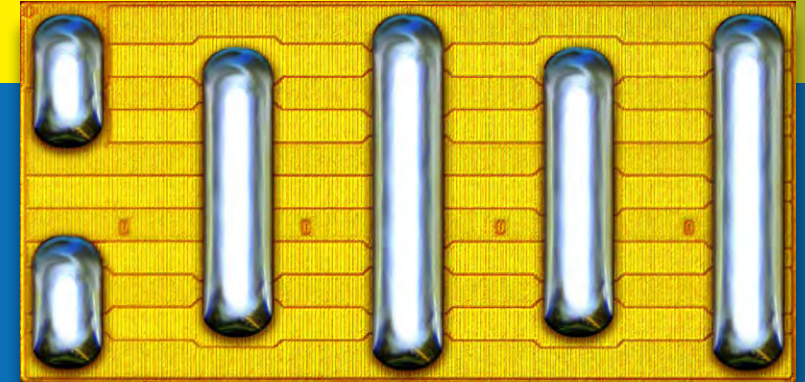
Typical Q_G , 5.7 nC

Typical Q_{GD} , 0.9 nC

Typical Q_{OSS} , 35 nC

Typical C_{OSS} , 267 pF

$R_{\theta JC}$, 0.9°C/W



2.8 x 1.4 mm
(3.92 mm²)

Half
Bridge
Eval
Board



Scan for:

- Full Datasheet
- Half-Bridge Evaluation Board: EPC9098, 170 V, 17 A



← **BACK**

EPC2207: 200 V, 22 mΩ

Commercial

EPC2207

V_{DS} , 200 V

Typical $R_{DS(on)}$, 15 mΩ

Max $R_{DS(on)}$, 22 mΩ

I_D , 14 A

Pulsed I_D , 54 A

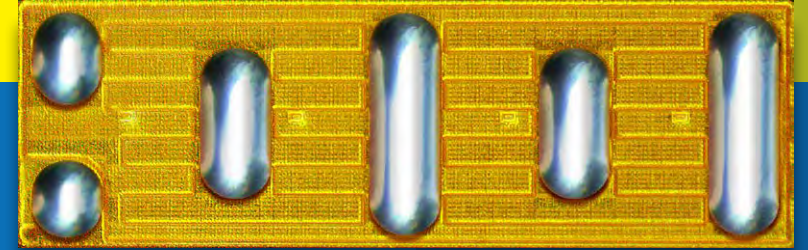
Typical Q_G , 4.5 nC

Typical Q_{GD} , 0.7 nC

Typical Q_{OSS} , 23 nC

Typical C_{OSS} , 130 pF

$R_{\theta JC}$, 1.4°C/W



2.8 x 0.9 mm
(2.52 mm²)

Half
Bridge
Eval
Board



Scan for:

- Full Datasheet
- Half-Bridge Evaluation Board:
EPC90124, 200 V, 8 A
- Application-Specific Evaluation Board:
EPC9083, 60 W differential mode
class-E wireless power amplifier



← **BACK**

Commercial

EPC2069: 40 V, 1.6 m Ω

EPC2067: 40 V, 1.55 m Ω

EPC2069

Typical $R_{DS(on)}$, 1.6 m Ω

Max $R_{DS(on)}$, 2.25 m Ω

I_D , 80 A

Pulsed I_D , 422 A

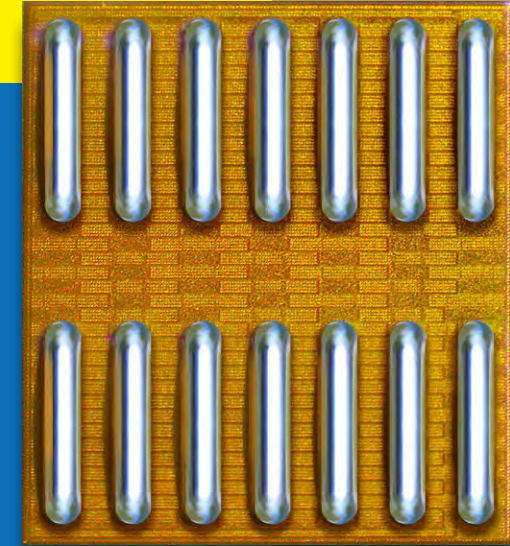
Typical Q_G , 12.5 nC

Typical Q_{GD} , 2.4 nC

Typical Q_{OSS} , 32 nC

Typical C_{OSS} , 1044 pF

$R_{\theta JC}$, 0.35 $^{\circ}\text{C}/\text{W}$



2.85 x 3.25 mm
(9.26 mm²)

Half
Bridge
Eval
Board



Scan for:

- Full Datasheet
- Half-Bridge Evaluation Board:
EPC90139, 40 V, 40 A



←
BACK

EPC2069: 40 V, 1.6 mΩ

EPC2067: 40 V, 1.55 mΩ

Commercial

EPC2067

V_{DS} , 40 V

Typical $R_{DS(on)}$, 1.3 mΩ

Max $R_{DS(on)}$, 1.55 mΩ

I_D , 69 A

Pulsed I_D , 409 A

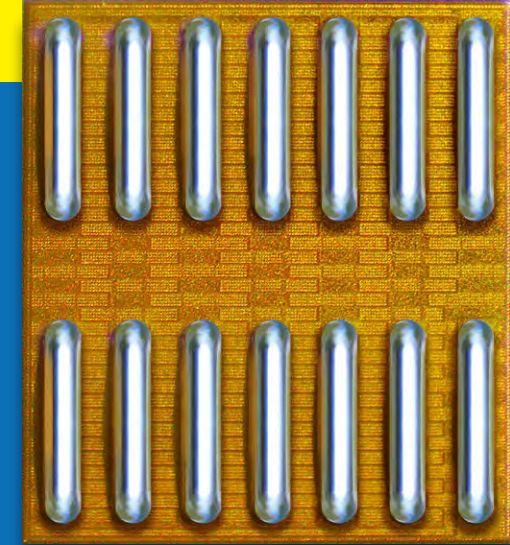
Typical Q_G , 17.1 nC

Typical Q_{GD} , 2 nC

Typical Q_{OSS} , 37 nC

Typical C_{OSS} , 1071 pF

$R_{\theta JC}$, 0.4°C/W



2.85 x 3.25 mm
(9.26 mm²)

Half
Bridge
Eval
Board



Scan for:

- Full Datasheet
- Half-Bridge Evaluation Board:
EPC90138, 40 V, 40 A
- Application-Specific Evaluation Board:
EPC9159, 1 Kw 48 V/12 V, LLC



← **BACK**

Commercial

EPC2065: 80 V, 3.6 m Ω

EPC2088: 100 V, 3.2 m Ω

EPC2218: 100 V, 3.2 m Ω

EPC2218A: 80 V, 3.2 m Ω
(Automotive)

EPC2065

V_{DS} , 80 V

Typical $R_{DS(on)}$, 2.7 m Ω

Max $R_{DS(on)}$, 3.6 m Ω

I_D , 60 A

Pulsed I_D , 215 A

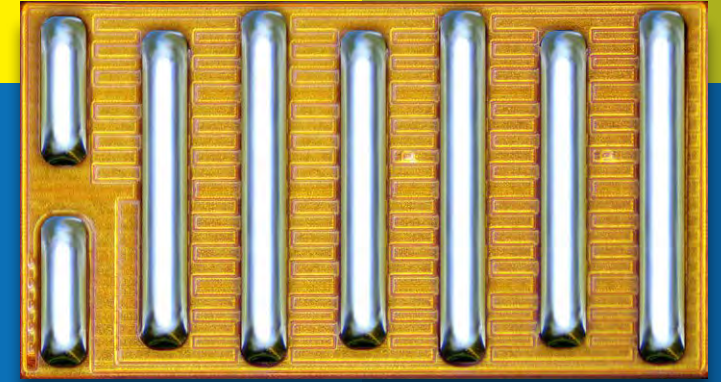
Typical Q_G , 9.4 nC

Typical Q_{GD} , 1.7 nC

Typical Q_{OSS} , 33 nC

Typical C_{OSS} , 534 pF

$R_{\theta JC}$, 0.5°C/W



3.5 x 1.95 mm
(6.83 mm²)

Half
Bridge
Eval
Board



Scan for:

- Full Datasheet
- Half-Bridge Evaluation Board:
EPC90137, 80 V, 25 A
- Application-Specific Evaluation Boards:
 - EPC9167: 20 A_{RMS} 3-Phase BLDC
Motor Drive Reference Design
 - EPC9167HC: 30 A_{RMS} 3-Phase BLDC
Motor Drive Reference Design



←
BACK

Commercial

EPC2065: 80 V, 3.6 m Ω

EPC2088: 100 V, 3.2 m Ω

EPC2218: 100 V, 3.2 m Ω

EPC2218A: 80 V, 3.2 m Ω
(Automotive)

EPC2088

V_{DS} , 100 V

Typical $R_{DS(on)}$, 2.4 m Ω

Max $R_{DS(on)}$, 3.2 m Ω

I_D , 60 A

Pulsed I_D , 231 A

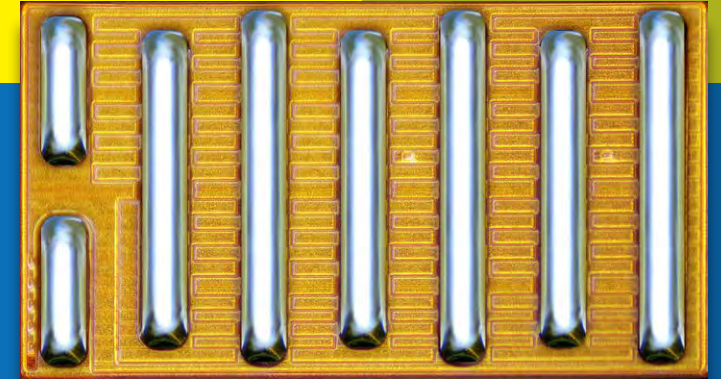
Typical Q_G , 12.5 nC

Typical Q_{GD} , 1.4 nC

Typical Q_{OSS} , 47 nC

Typical C_{OSS} , 557 pF

$R_{\theta JC}$, 0.5°C/W



3.5 x 1.95 mm
(6.83 mm²)

Half
Bridge
Eval
Board



Scan for:

- Full Datasheet
- Half-Bridge Evaluation Board: EPC90154, 100 V, 25 A



←
BACK

Commercial

EPC2065: 80 V, 3.6 mΩ

EPC2088: 100 V, 3.2 mΩ

EPC2218: 100 V, 3.2 mΩ

EPC2218A: 80 V, 3.2 mΩ
(Automotive)

EPC2218

V_{DS} , 100 V

Typical $R_{DS(on)}$, 2.4 mΩ

Max $R_{DS(on)}$, 3.2 mΩ

I_D , 60 A

Pulsed I_D , 309 A

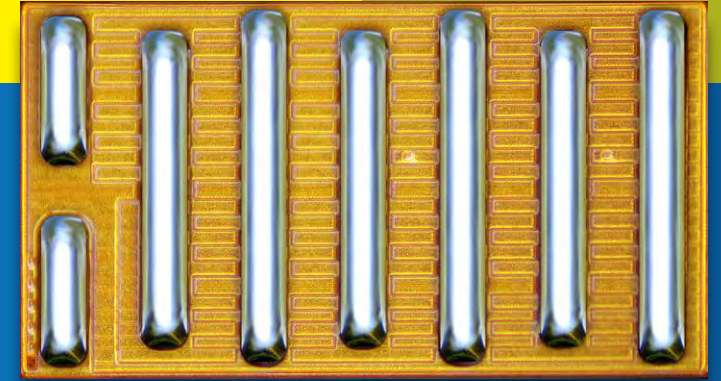
Typical Q_G , 10.5 nC

Typical Q_{GD} , 1.5 nC

Typical Q_{OSS} , 46 nC

Typical C_{OSS} , 562 pF

$R_{\theta JC}$, 0.5°C/W



3.5 x 1.95 mm
(6.83 mm²)

Half
Bridge
Eval
Board



Scan for:

- Full Datasheet
- Half-Bridge Evaluation Board:
EPC90123, 100 V, 25 A
- Application-Specific Evaluation Boards:
 - EPC9158, 50 A Dual Phase Sync Buck Converter with Analog Controller
 - EPC9163, 2 kW 48 V/12 V Bidirectional Power Module



← **BACK**

Automotive

EPC2065: 80 V, 3.6 m Ω

EPC2088: 100 V, 3.2 m Ω

EPC2218: 100 V, 3.2 m Ω

**EPC2218A: 80 V, 3.2 m Ω
(Automotive)**

EPC2218A

V_{DS} , 80 V

Typical $R_{DS(on)}$, 2.4 m Ω

Max $R_{DS(on)}$, 3.2 m Ω

I_D , 60 A

Pulsed I_D , 309 A

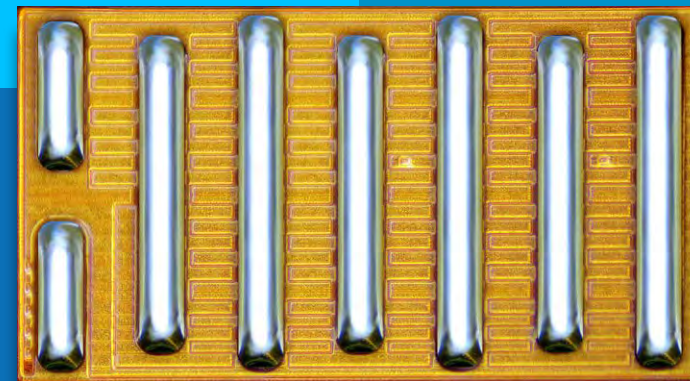
Typical Q_G , 10.5 nC

Typical Q_{GD} , 1.5 nC

Typical Q_{OSS} , 46 nC

Typical C_{OSS} , 562 pF

$R_{\theta JC}$, 0.5°C/W



3.5 x 1.95 mm
(6.83 mm²)

Scan for:

- Full Datasheet
- Application Specific Evaluation Board: EPC9180, 80 V, 230 A Laser Diode Driver



BACK

Integrated Circuits

EPC2111: 30 V, Asymmetric
Half Bridge, 19/8 mΩ

EPC2111

V_{DS} , 30 V

Typical $R_{DS(on)}$, 14 mΩ (Q1) /
6 mΩ (Q2)

Max $R_{DS(on)}$, 19 mΩ (Q1) / 8 mΩ (Q2)

I_D , 16 A

Pulsed I_D , 50 A (Q1) / 140 A (Q2)

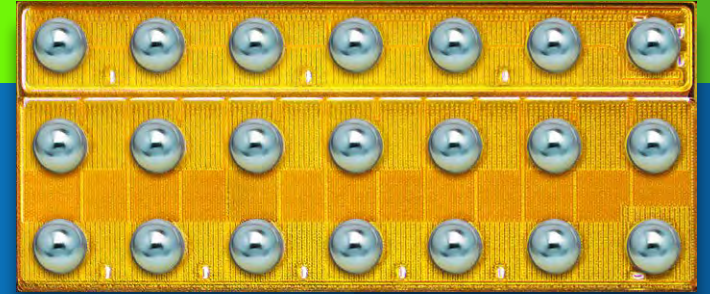
Typical Q_G , 1.7 nC (Q1) / 4.5 nC (Q2)

Typical Q_{GD} , 0.3 nC (Q1) / 0.8 nC (Q2)

Typical Q_{OSS} , 3.3 nC (Q1) /
9.6 nC (Q2)

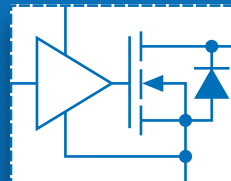
Typical C_{OSS} , 170 pF (Q1) /
490 pF (Q2)

$R_{\theta JC}$, 1.3°C/W



3.6 x 1.5 mm
(5.25 mm²)

Half
Bridge
Eval
Board



View schematic

Scan for:

- Full Datasheet
- Half-Bridge
Evaluation Board:
EPC9086, 30 V, 15 A



←
BACK

EPC7007: 200 V, 25 mΩ

Rad-Hard

EPC7007

V_{DS} , 200 V

Typical $R_{DS(on)}$, 17 mΩ

Max $R_{DS(on)}$, 25 mΩ

I_D , 20 A

Pulsed I_D , 80 A

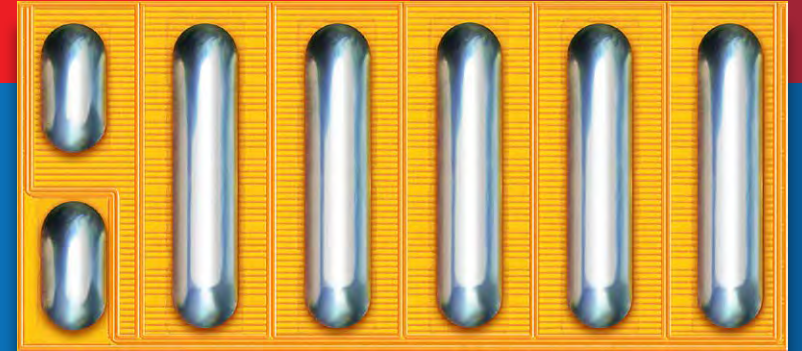
Typical Q_G , 5.4 nC

Typical Q_{GD} , 1.0 nC

Typical Q_{OSS} , 37 nC

Typical C_{OSS} , 256 pF

$R_{\theta JC}$, 1.1°C/W



3.6 x 1.6 mm
(5.76 mm²)

← **BACK**

Scan for:
• Full Datasheet



Integrated Circuits

EPC2152: 80 V,
15 A continuous,
ePower™ Stage

EPC2152

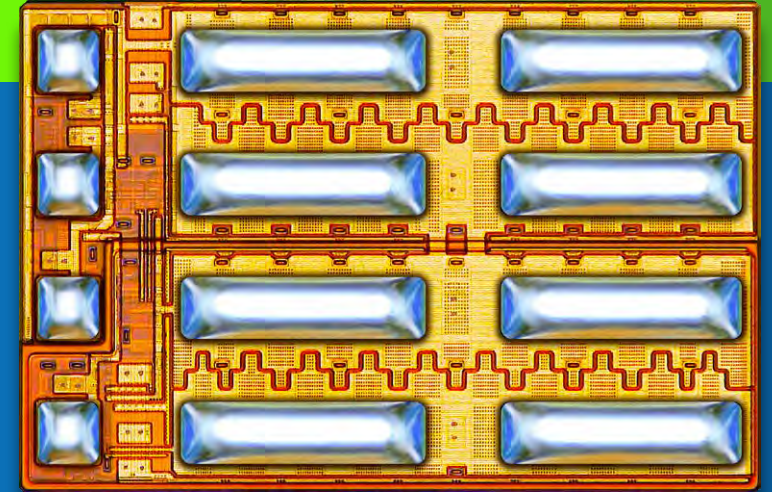
80 V, 15 A ePower™ Stage

Rated Output Current
(1 MHz), 15 A

Frequency: 3 MHz max

Input Voltage: 60 V max

Bias Supply Voltage, 12 V



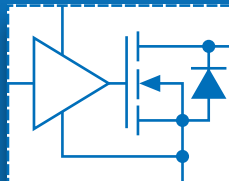
3.9 x 2.6 x 0.63 mm
(10.14 mm²)

Half
Bridge
Eval
Board



Scan for:

- Full Datasheet
- Half-Bridge Evaluation Board:
EPC90120, 80 V, 10 A
- Application-Specific Evaluation Board:
EPC9151, High Power Density 300 W
1/16th Brick Converter



View schematic

← **BACK**

EPC7004: 100 V, 7 mΩ

EPC7002: 40 V, 14.5 mΩ

EPC7001: 40 V, 4 mΩ

Rad-Hard

EPC7004

V_{DS} , 100 V

Typical $R_{DS(on)}$, 5 mΩ

Max $R_{DS(on)}$, 7 mΩ

I_D , 60 A

Pulsed I_D , 160 A

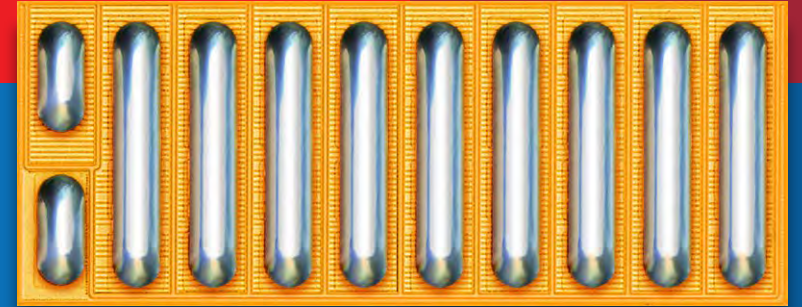
Typical Q_G , 6.4 nC

Typical Q_{GD} , 1.1 nC

Typical Q_{OSS} , 37 nC

Typical C_{OSS} , 485 pF

$R_{\theta JC}$, 0.8°C/W



4.1 x 1.6 mm
(6.56 mm²)

←
BACK

Scan for:
• Full Datasheet



EPC7004: 100 V, 7 mΩ

EPC7002: 40 V, 14.5 mΩ

EPC7001: 40 V, 4 mΩ

Rad-Hard

EPC7002

V_{DS} , 40 V

Typical $R_{DS(on)}$, 8.5 mΩ

Max $R_{DS(on)}$, 14.5 mΩ

I_D , 10 A

Pulsed I_D , 62 A

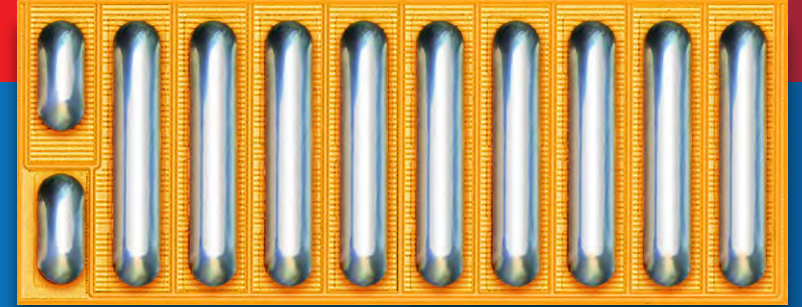
Typical Q_G , 2.9 nC

Typical Q_{GD} , 0.4 nC

Typical Q_{OSS} , 6.6 nC

Typical C_{OSS} , 201 pF

$R_{\theta JC}$, 3.6°C/W



4.1 x 1.6 mm
(6.56 mm²)

← **BACK**

Scan for:
• Full Datasheet



EPC7004: 100 V, 7 mΩ

EPC7002: 40 V, 14.5 mΩ

EPC7001: 40 V, 4 mΩ

Rad-Hard

EPC7001

V_{DS} , 40 V

Typical $R_{DS(on)}$, 2.1 mΩ

Max $R_{DS(on)}$, 4 mΩ

I_D , 60 A

Pulsed I_D , 250 A

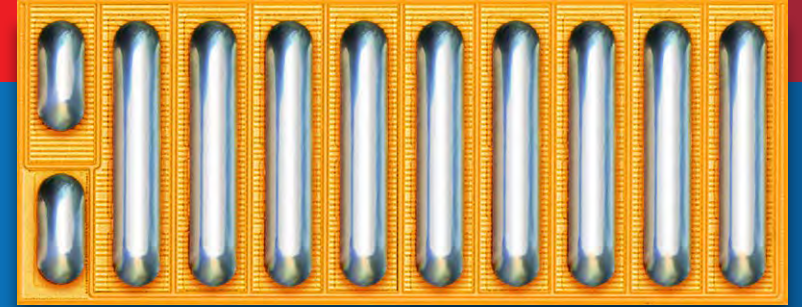
Typical Q_G , 11 nC

Typical Q_{GD} , 1.7 nC

Typical Q_{OSS} , 26 nC

Typical C_{OSS} , 792 pF

$R_{\theta JC}$, 0.8°C/W



4.1 x 1.6 mm
(6.56 mm²)

← **BACK**

Scan for:
• Full Datasheet



EPC2071:100 V, 2.2 mΩ

Commercial

EPC2071

V_{DS} , 100 V

Typical $R_{DS(on)}$, 1.7 mΩ

Max $R_{DS(on)}$, 2.2 mΩ

I_D , 64 A

Pulsed I_D , 350 A

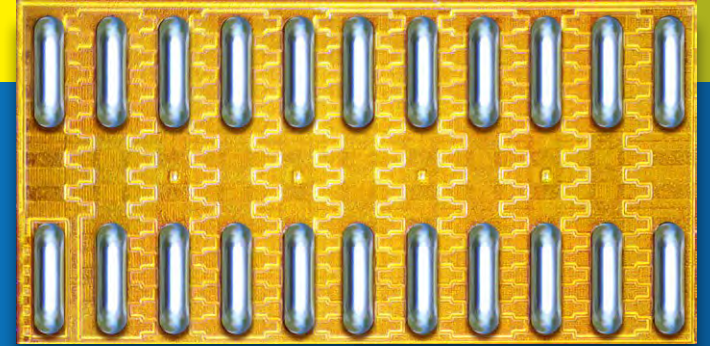
Typical Q_G , 18 nC

Typical Q_{GD} , 1.8 nC

Typical Q_{OSS} , 71 nC

Typical C_{OSS} , 878 pF

$R_{\theta JC}$, 0.4°C/W



4.45 x 2.3 mm
(10.24 mm²)

Half
Bridge
Eval
Board



Scan for:

- Full Datasheet
- Half-Bridge Evaluation Board:
EPC90146, 100 V, 40 A
- Application-Specific Evaluation Board:
EPC9174, 1.2 Kw LLC 1/8th Brick, 48 V-12 V



← **BACK**

EPC2215: 200 V, 8 mΩ

Commercial

EPC2215

V_{DS} , 200 V

Typical $R_{DS(on)}$, 6 mΩ

Max $R_{DS(on)}$, 8 mΩ

I_D , 32 A

Pulsed I_D , 162 A

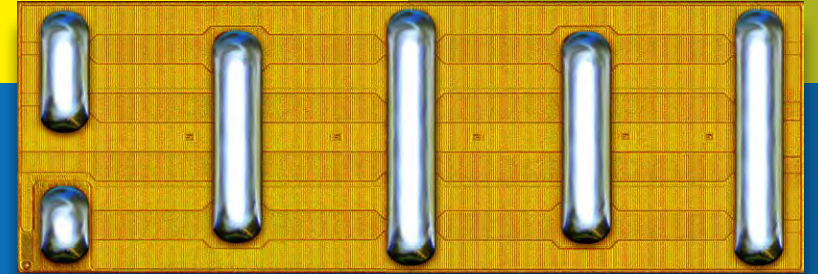
Typical Q_G , 13.6 nC

Typical Q_{GD} , 2.1 nC

Typical Q_{OSS} , 69 nC

Typical C_{OSS} , 390 pF

$R_{\theta JC}$, 0.5°C/W



4.6 x 1.6 mm
(7.36 mm²)

Half
Bridge
Eval
Board



Scan for:

- Full Datasheet
- Half-Bridge Evaluation Board: EPC9099, 200 V, 15 A



← **BACK**

EPC2234: 160 V, 6 mΩ

EPC7020: 200 V, 11 mΩ

Rad-Hard

EPC7020

V_{DS} , 200 V

Typical $R_{DS(on)}$, 8 mΩ

Max $R_{DS(on)}$, 11 mΩ

I_D , 39 A

Pulsed I_D , 170 A

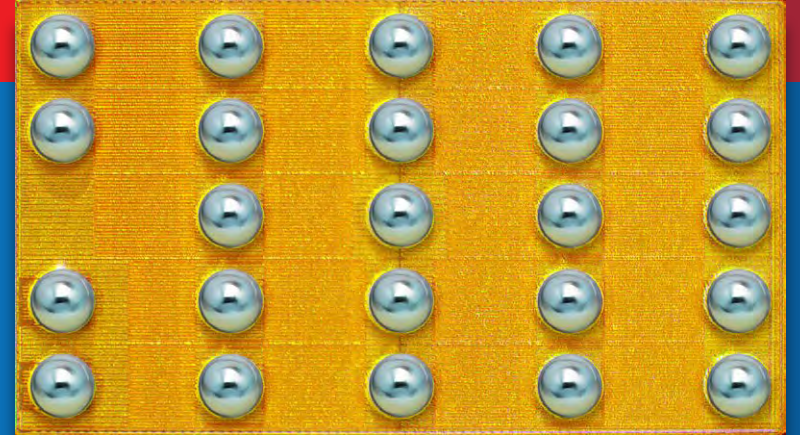
Typical Q_G , 11.7 nC

Typical Q_{GD} , 2.2 nC

Typical Q_{OSS} , 76 nC

Typical C_{OSS} , 494 pF

$R_{\theta JC}$, 0.4°C/W



4.6 x 2.6 mm
(11.96 mm²)

Scan for:

• Full Datasheet



←
BACK

EPC2361: 100 V, 1 mΩ

EPC2302: 100 V, 1.8 mΩ

EPC2306: 100 V, 3.8 mΩ

EPC2305: 150 V, 3 mΩ

EPC2308: 150 V, 6 mΩ

EPC2304: 200 V, 5 mΩ

EPC2307: 200 V, 10 mΩ

Commercial

EPC2361

V_{DS} , 100 V

Typical $R_{DS(on)}$, 1 mΩ

I_D , 101 A

Pulsed I_D , 519 A

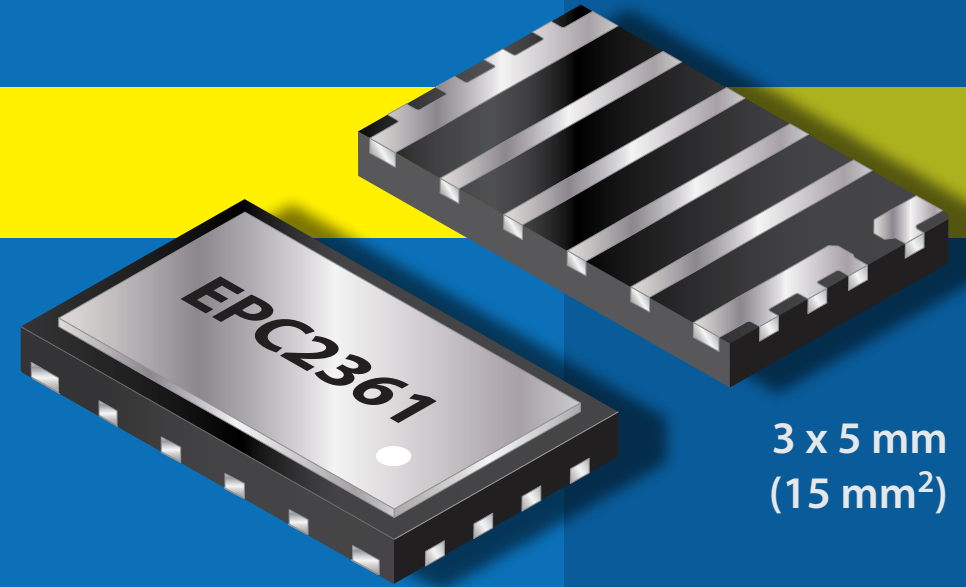
Typical Q_G , 28 nC

Typical Q_{GD} , 2.5 nC

Typical Q_{OSS} , 86 nC

Typical C_{OSS} , 1147 pF

$R_{\theta JC}$, 0.2°C/W



3 x 5 mm
(15 mm²)

Half
Bridge
Eval
Board



Scan for:

- Full Datasheet
- Half-Bridge Evaluation Board: EPC90156, 100 V, 65 A



← **BACK**

EPC2361: 100 V, 1 mΩ

EPC2302: 100 V, 1.8 mΩ

EPC2306: 100 V, 3.8 mΩ

EPC2305: 150 V, 3 mΩ

EPC2308: 150 V, 6 mΩ

EPC2304: 200 V, 5 mΩ

EPC2307: 200 V, 10 mΩ

Commercial

EPC2302

V_{DS} , 100 V

Typical $R_{DS(on)}$, 1.4 mΩ

Max $R_{DS(on)}$, 1.8 mΩ

I_D , 101 A

Pulsed I_D , 408 A

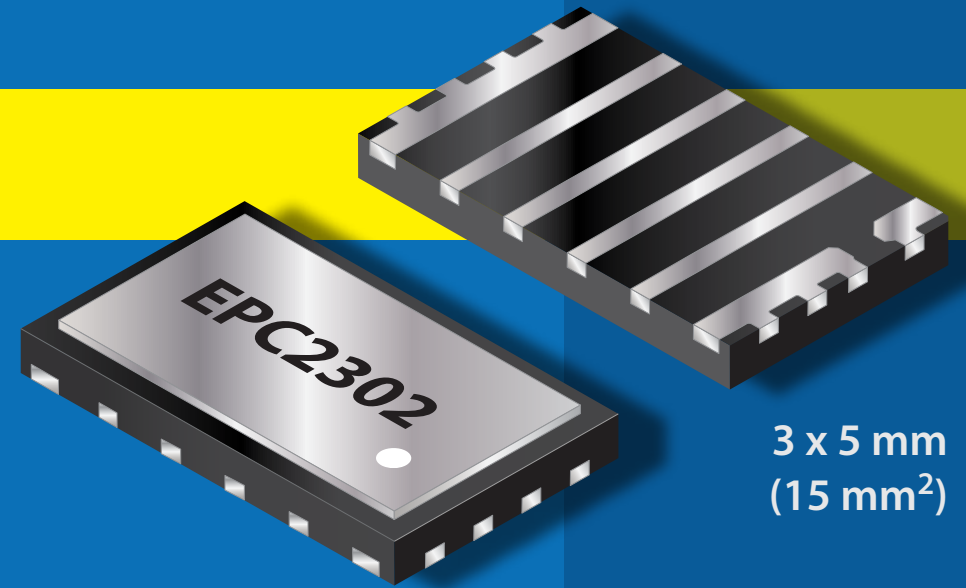
Typical Q_G , 23 nC

Typical Q_{GD} , 2.3 nC

Typical Q_{OSS} , 85 nC

Typical C_{OSS} , 1000 pF

$R_{\theta JC}$, 0.2°C/W



3 x 5 mm
(15 mm²)

Half
Bridge
Eval
Board



Scan for:

- Full Datasheet
- Half-Bridge Evaluation Board:
EPC90142, 100 V, 65 A
- Application-Specific Evaluation Boards:
 - EPC9165, 2 kW 48 V/14 V Bidirectional Power Module
 - EPC9186, 150 A_{RMS}, wide input voltage 3-Phase BLDC Motor Drive Inverter



← **BACK**

EPC2361: 100 V, 1 mΩ

EPC2302: 100 V, 1.8 mΩ

EPC2306: 100 V, 3.8 mΩ

EPC2305: 150 V, 3 mΩ

EPC2308: 150 V, 6 mΩ

EPC2304: 200 V, 5 mΩ

EPC2307: 200 V, 10 mΩ

Commercial

EPC2306

V_{DS} , 100 V

Typical $R_{DS(on)}$, 2.5 mΩ

Max $R_{DS(on)}$, 3.1 mΩ

I_D , 62 A

Pulsed I_D , 197 A

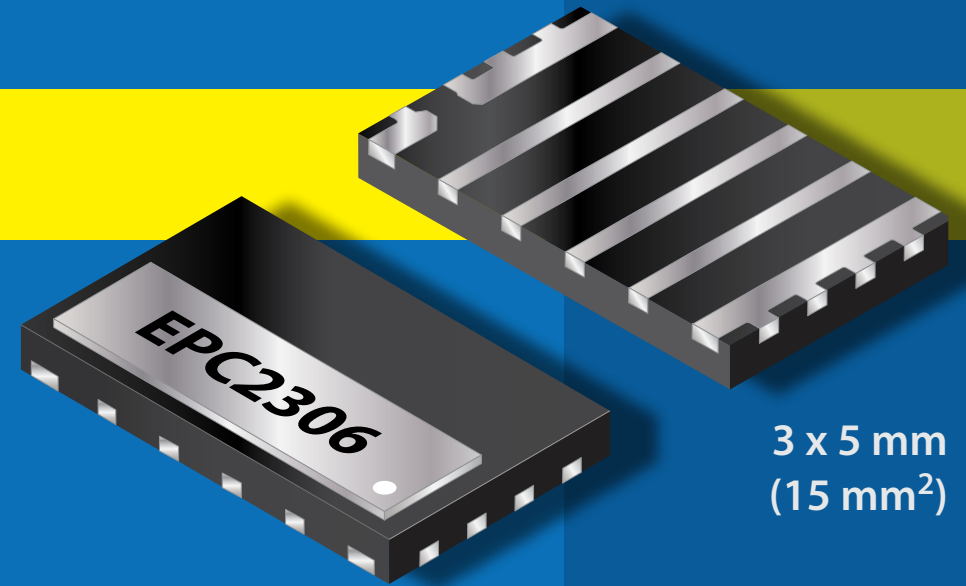
Typical Q_G , 12.3 nC

Typical Q_{GD} , 1.1 nC

Typical Q_{OSS} , 44 nC

Typical C_{OSS} , 616 pF

$R_{\theta JC}$, 0.2°C/W



3 x 5 mm
(15 mm²)

Half
Bridge
Eval
Board



Scan for:

- Full Datasheet
- Half-Bridge Evaluation Board:
EPC90145, 100 V, 45 A
- Application-Specific Evaluation Board:
- EPC9178, Four switch, Bidirectional
Capable Buck-Boost converter



BACK

EPC2361: 100 V, 1 mΩ

EPC2302: 100 V, 1.8 mΩ

EPC2306: 100 V, 3.8 mΩ

EPC2305: 150 V, 3 mΩ

EPC2308: 150 V, 6 mΩ

EPC2304: 200 V, 5 mΩ

EPC2307: 200 V, 10 mΩ

Commercial

EPC2305

V_{DS} , 150 V

Typical $R_{DS(on)}$, 2.2 mΩ

Max $R_{DS(on)}$, 3 mΩ

I_D , 102 A

Pulsed I_D , 329 A

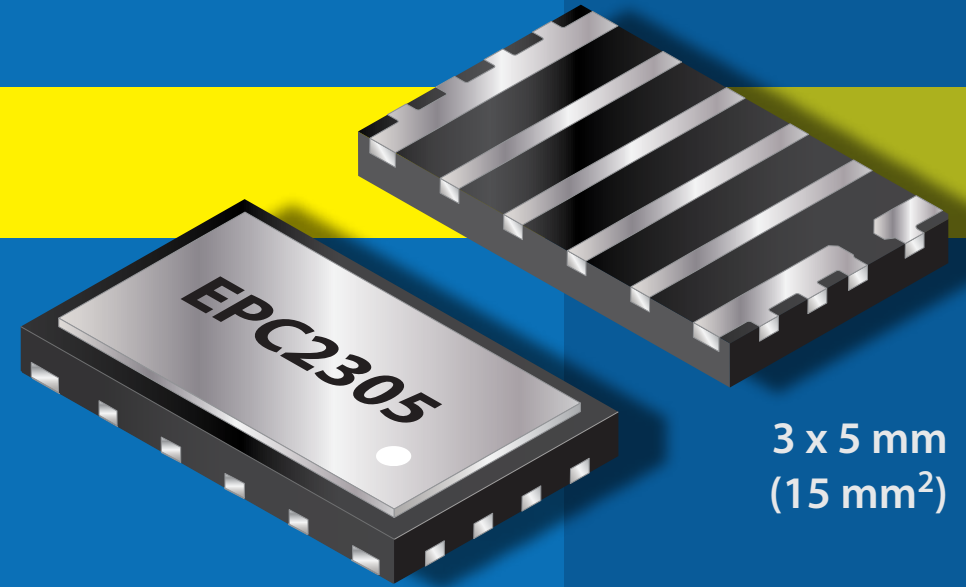
Typical Q_G , 22 nC

Typical Q_{GD} , 2.1 nC

Typical Q_{OSS} , 103 nC

Typical C_{OSS} , 852 pF

$R_{\theta JC}$, 0.2°C/W



3 x 5 mm
(15 mm²)

Half
Bridge
Eval
Board



Scan for:

- Full Datasheet
- Half-Bridge Evaluation Board:
EPC90143, 150 V, 25 A
- Application-Specific Evaluation Board:
- EPC91200, 40 A_{RMS} 3-Phase Motor
Drive Inverter



BACK

Commercial

EPC2361: 100 V, 1 mΩ

EPC2302: 100 V, 1.8 mΩ

EPC2306: 100 V, 3.8 mΩ

EPC2305: 150 V, 3 mΩ

EPC2308: 150 V, 6 mΩ

EPC2304: 200 V, 5 mΩ

EPC2307: 200 V, 10 mΩ

EPC2308

V_{DS} , 150 V

Typical $R_{DS(on)}$, 4.5 mΩ

Max $R_{DS(on)}$, 6 mΩ

I_D , 63 A

Pulsed I_D , 157 A

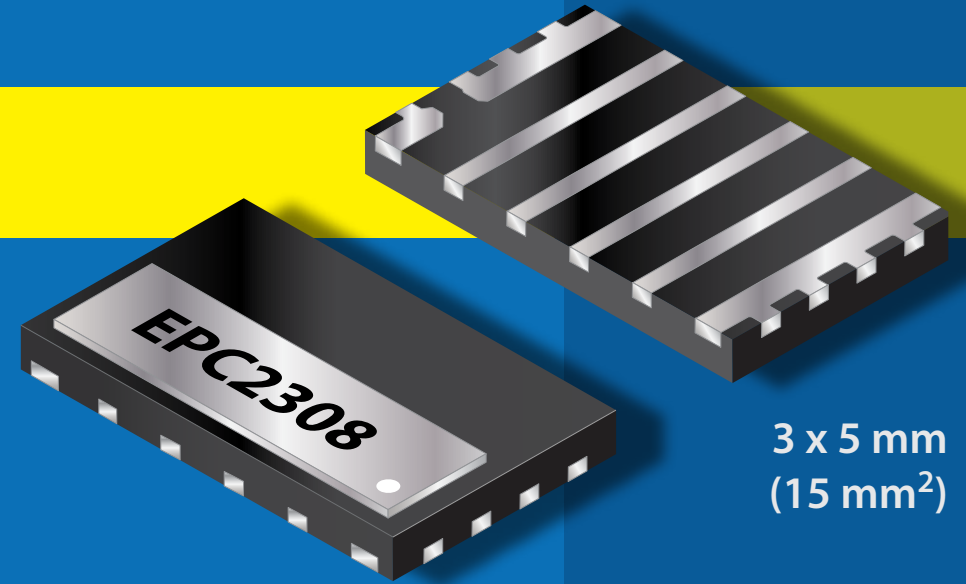
Typical Q_G , 11.7 nC

Typical Q_{GD} , 1 nC

Typical Q_{OSS} , 50 nC

Typical C_{OSS} , 401 pF

$R_{\theta JC}$, 0.5°C/W



3 x 5 mm
(15 mm²)

Half
Bridge
Eval
Board



Scan for:

- Full Datasheet
- Half-Bridge Evaluation Board: EPC90148, 150 V, 12 A



← **BACK**

EPC2361: 100 V, 1 mΩ

EPC2302: 100 V, 1.8 mΩ

EPC2306: 100 V, 3.8 mΩ

EPC2305: 150 V, 3 mΩ

EPC2308: 150 V, 6 mΩ

EPC2304: 200 V, 5 mΩ

EPC2307: 200 V, 10 mΩ

Commercial

EPC2304

V_{DS} , 200 V

Typical $R_{DS(on)}$, 3.5 mΩ

Max $R_{DS(on)}$, 5 mΩ

I_D , 133 A

Pulsed I_D , 260 A

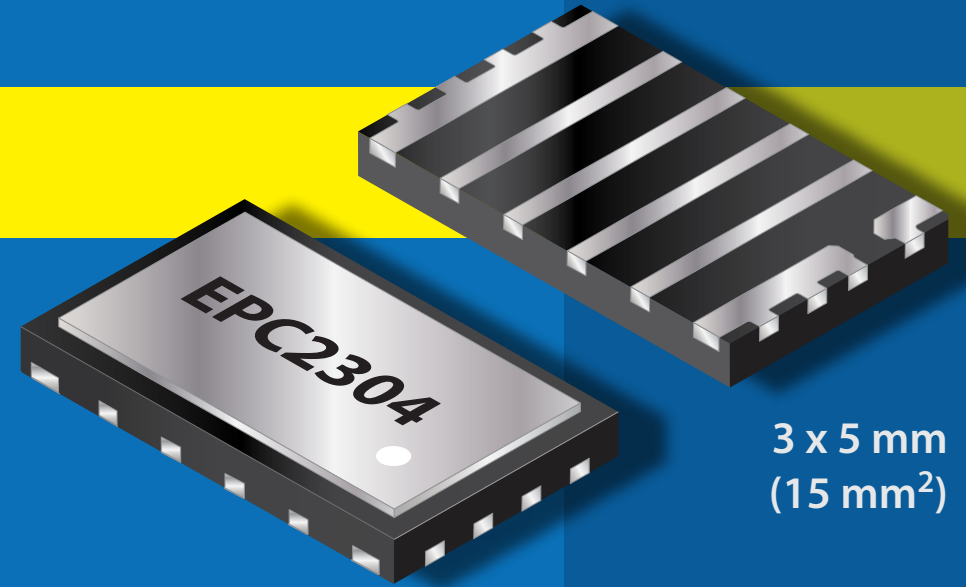
Typical Q_G , 21 nC

Typical Q_{GD} , 2 nC

Typical Q_{OSS} , 120 nC

Typical C_{OSS} , 704 pF

$R_{\theta JC}$, 0.2°C/W



3 x 5 mm
(15 mm²)

Half
Bridge
Eval
Board



Scan for:

- Full Datasheet
- Half-Bridge Evaluation Board: EPC90140, 200 V, 30 A



BACK

EPC2361: 100 V, 1 mΩ

EPC2302: 100 V, 1.8 mΩ

EPC2306: 100 V, 3.8 mΩ

EPC2305: 150 V, 3 mΩ

EPC2308: 150 V, 6 mΩ

EPC2304: 200 V, 5 mΩ

EPC2307: 200 V, 10 mΩ

Commercial

EPC2307

V_{DS} , 200 V

Typical $R_{DS(on)}$, 7.2 mΩ

Max $R_{DS(on)}$, 10 mΩ

I_D , 62 A

Pulsed I_D , 130 A

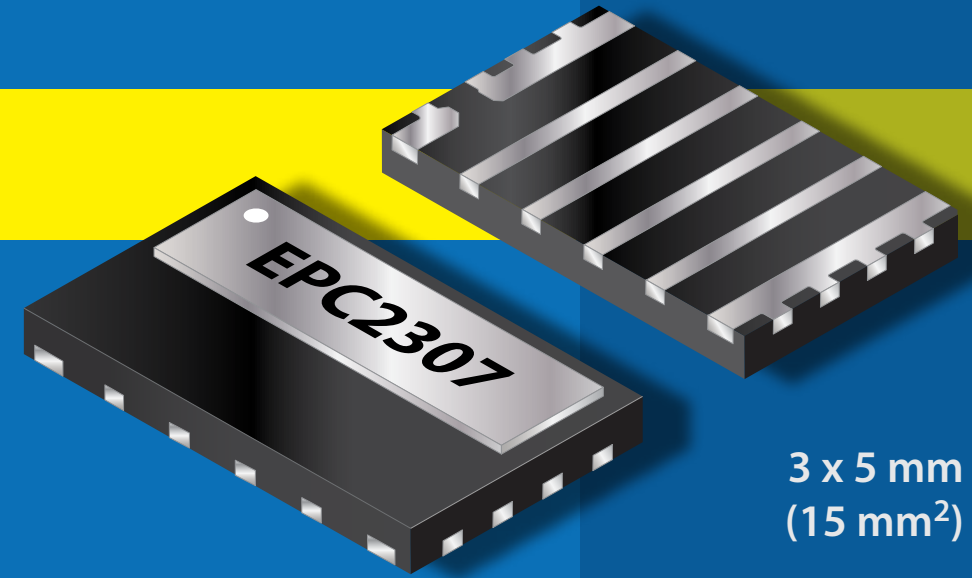
Typical Q_G , 10.1 nC

Typical Q_{GD} , 1.2 nC

Typical Q_{OSS} , 58 nC

Typical C_{OSS} , 343 pF

$R_{\theta JC}$, 0.2°C/W



3 x 5 mm
(15 mm²)

Half
Bridge
Eval
Board



Scan for:

- Full Datasheet
- Half-Bridge Evaluation Board: EPC90150, 200 V, 20 A



BACK

EPC23101: 100 V, 65 A
ePower™ Stage IC

Integrated Circuits

EPC23101

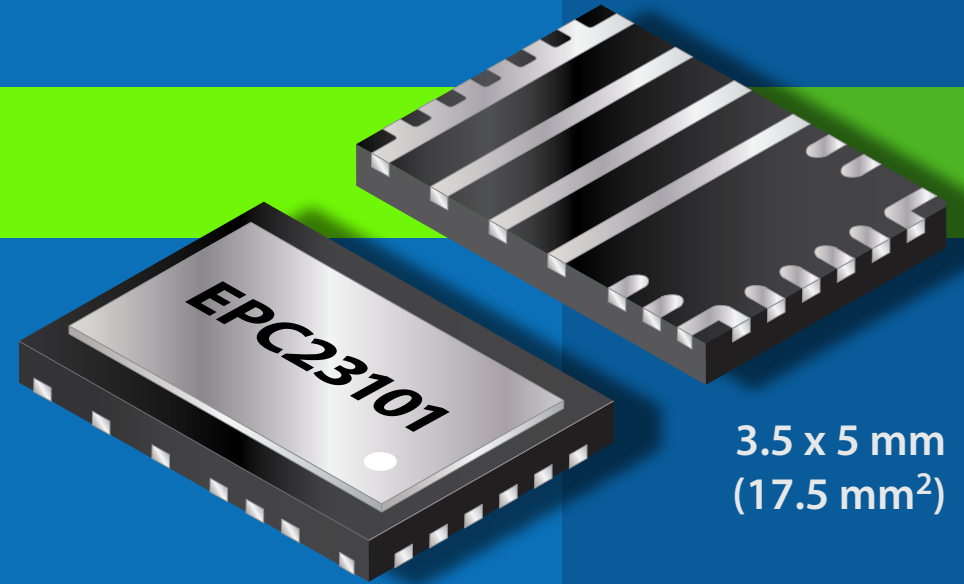
100 V, 65 A
ePower™ Chipset

*Pairs with EPC2302 to form
a Power Stage up to 65 A*

Integrated Half Bridge
Driver, Level Shift,
Bootstrap, and High Side FET

Power Stage Load
Current (1 MHz), 65 A

Maximum Input
Voltage, 80 V



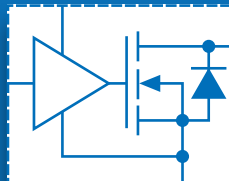
3.5 x 5 mm
(17.5 mm²)

Half
Bridge
Eval
Board



Scan for:

- Full Datasheet
- Half-Bridge Evaluation Board:
EPC90142, 100 V, 65 A
- Application-Specific Evaluation Boards:
 - EPC9170, 2 kW 48 V/14 V
Bidirectional Converter
 - EPC9173, 35 A_{RMS} 3-Phase
BLDC Motor Drive



View schematic

← **BACK**

EPC23102: 100 V, 35 A
ePower™ Stage IC

EPC23104: 100 V,
15 A continuous
ePower™ Stage IC

Integrated Circuits

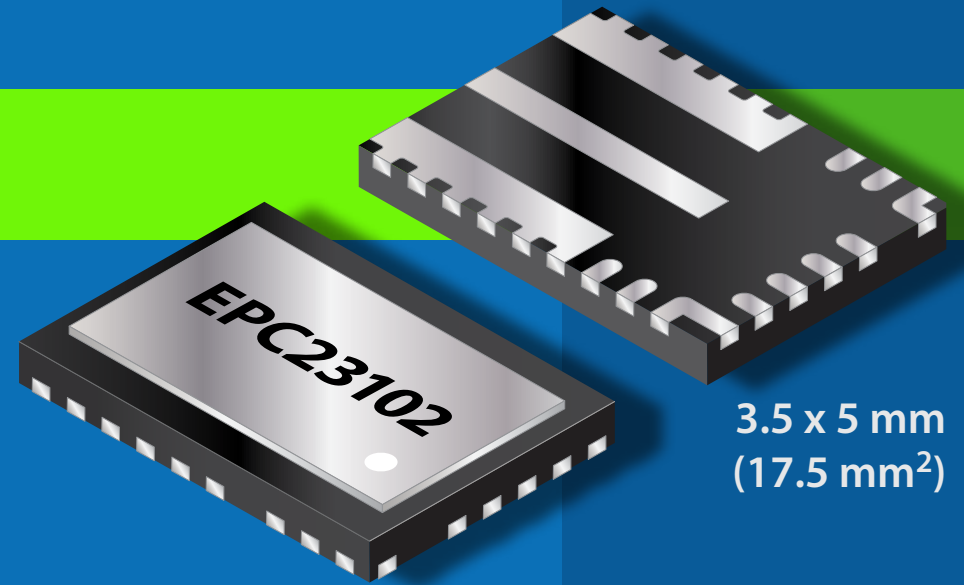
EPC23102

100 V, 35 A ePower™
Stage IC

Integrated high side
and low side eGaN®
FETs with internal gate
driver and level shifter

Power Stage Load
Current (1 MHz), 35 A

Maximum Input
Voltage, 80 V



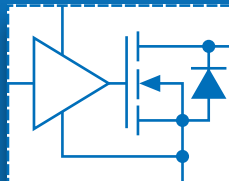
3.5 x 5 mm
(17.5 mm²)

Half
Bridge
Eval
Board



Scan for:

- Full Datasheet
- Half-Bridge Evaluation Board:
EPC90147, 100 V, 22 A
- Application-Specific Evaluation Boards:
 - EPC9177, Small Area, Low-Profile,
Synchronous Buck Converter
 - EPC9176, 20 ARMS 3-Phase BLDC
Motor Drive Reference Design



View schematic

← **BACK**

EPC23102: 100 V, 35 A
ePower™ Stage IC

EPC23104: 100 V,
15 A continuous
ePower™ Stage IC

Integrated Circuits

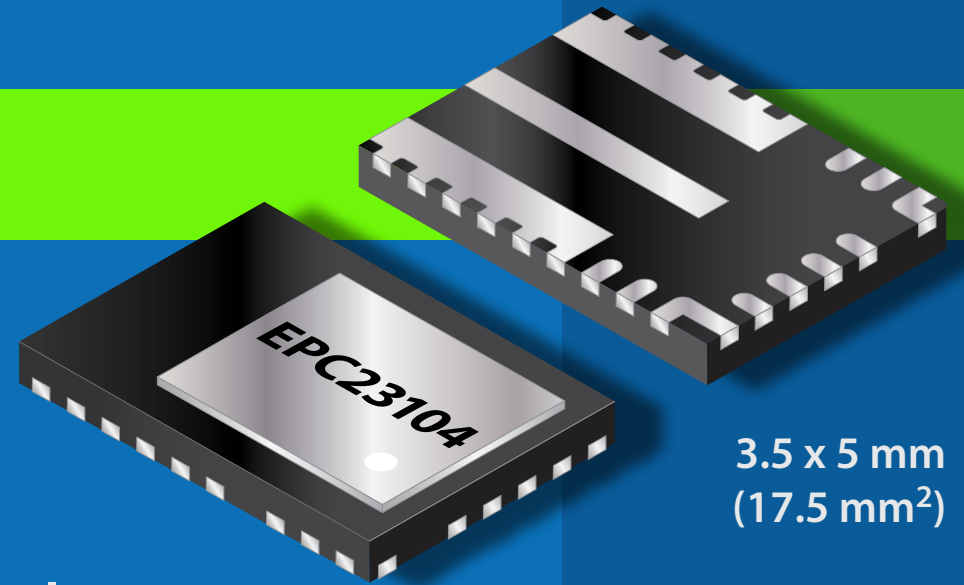
EPC23104

100 V, 15 A ePower™
Stage IC

Integrated high side and
low side eGaN® FETs with
internal gate driver and level
shifter

Power Stage Load Current
(1 MHz), 15 A

Maximum Input
Voltage, 80 V



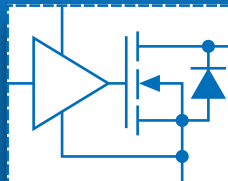
3.5 x 5 mm
(17.5 mm²)

Half
Bridge
Eval
Board



Scan for:

- Full Datasheet
- Half-Bridge Evaluation Board:
EPC90152, 100 V, 14 A
- Application-Specific Evaluation Boards:
 - EPC91106, 150 W Low Profile,
Synchronous Buck and Boost Converter
 - EPC91104, 14 A_{RMS} 3-Phase Motor Drive
Inverter



View schematic

← **BACK**

EPC2367: 100 V, 78 A

Commercial

EPC2367

V_{DS} , 100 V

Typical $R_{DS(on)}$, 1.2 m Ω

I_D , 78 A

Pulsed I_D , 309 A

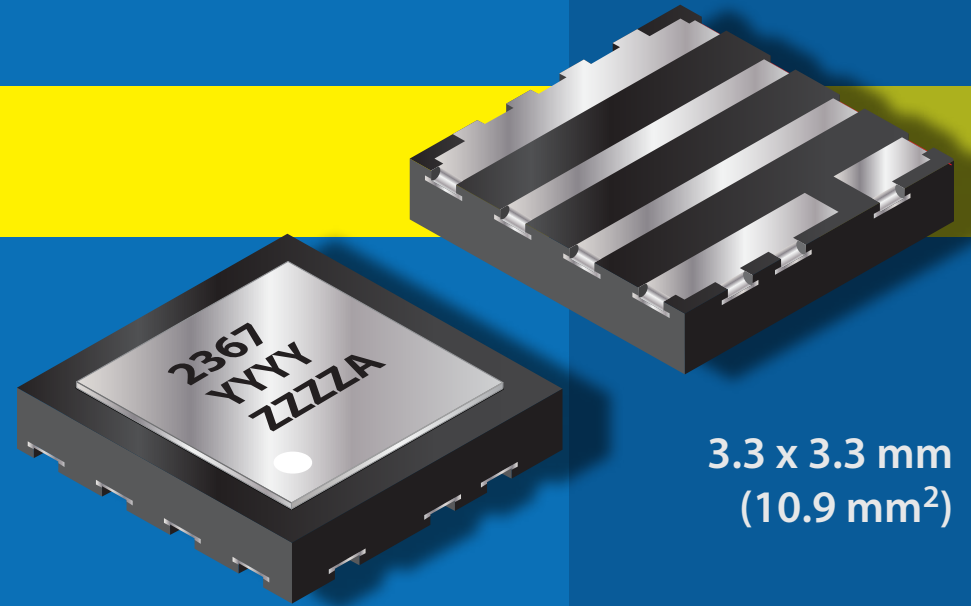
Typical Q_G , 17 nC

Typical Q_{GD} , 2.4 nC

Typical Q_{OSS} , 54 nC

Typical C_{OSS} , 590 pF

$R_{\theta JC}$, 0.5 °C/W



3.3 x 3.3 mm
(10.9 mm²)

Half
Bridge
Eval
Board



Scan for:

- Full Datasheet
- Half-Bridge Evaluation Board: EPC90164, 100 V, 35 A



← **BACK**

EPC2066: 40 V, 1.1 mΩ

Commercial

EPC2066

V_{DS} , 40 V

Typical $R_{DS(on)}$, 0.8 mΩ

Max $R_{DS(on)}$, 1.1 mΩ

I_D , 90 A

Pulsed I_D , 639 A

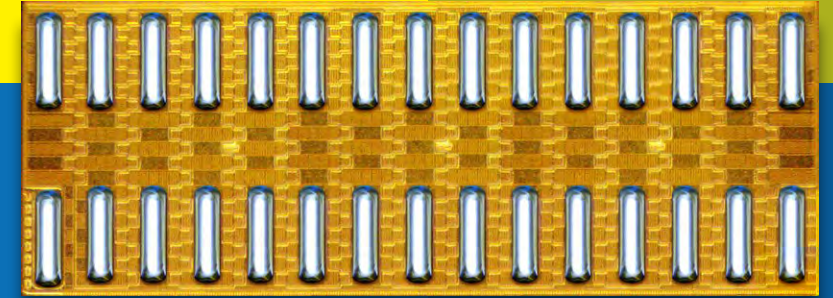
Typical Q_G , 25 nC

Typical Q_{GD} , 3.2 nC

Typical Q_{OSS} , 59 nC

Typical C_{OSS} , 1670 pF

$R_{\theta JC}$, 0.3°C/W



6.05 x 2.3 mm
(13.92 mm²)

Half
Bridge
Eval
Board



Scan for:

- Full Datasheet
- Half-Bridge Evaluation Board:
EPC90149, 40 V, 40 A
- Application-Specific Evaluation Board:
EPC9174, 1.2 Kw LLC 1/8th Brick,
48 V-12 V



←
BACK

Automotive

EPC2206: 80 V, 2.2 m Ω

EPC7018: 100 V, 3.9 m Ω

EPC7019: 40 V, 1.5 m Ω

EPC2206

V_{DS} , 80 V

Typical $R_{DS(on)}$, 1.8 m Ω

Max $R_{DS(on)}$, 2.2 m Ω

I_D , 90 A

Pulsed I_D , 390 A

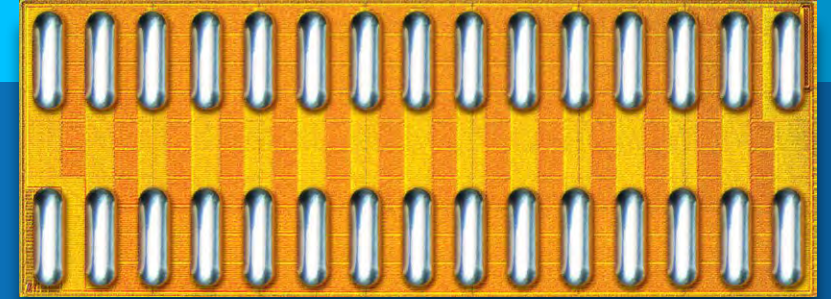
Typical Q_G , 15 nC

Typical Q_{GD} , 3 nC

Typical Q_{OSS} , 72 nC

Typical C_{OSS} , 1100 pF

$R_{\theta JC}$, 0.4°C/W



6.05 x 2.3 mm
(13.92 mm²)

Half
Bridge
Eval
Board



Scan for:

- Full Datasheet
- Half-Bridge Evaluation Board: EPC90122, 80 V, 40 A



←
BACK

EPC2206: 80 V, 2.2 m Ω

EPC7018: 100 V, 3.9 m Ω

EPC7019: 40 V, 1.5 m Ω

Rad-Hard

EPC7018

V_{DS} , 100 V

Typical $R_{DS(on)}$, 2.7 m Ω

Max $R_{DS(on)}$, 3.9 m Ω

I_D , 90 A

Pulsed I_D , 345 A

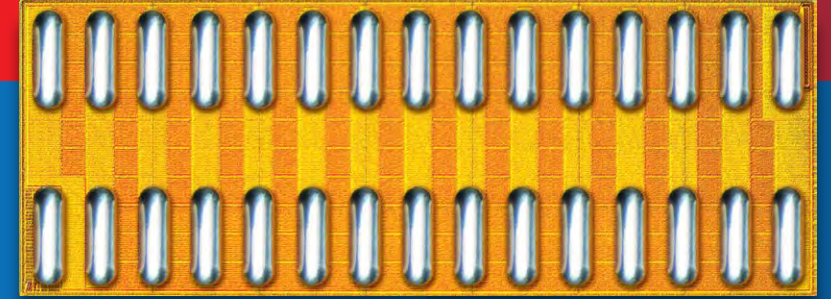
Typical Q_G , 15.2 nC

Typical Q_{GD} , 2.6 nC

Typical Q_{OSS} , 77 nC

Typical C_{OSS} , 1025 pF

$R_{\theta JC}$, 0.4°C/W



6.05 x 2.3 mm
(13.92 mm²)

← **BACK**

Scan for:
• Full Datasheet



EPC2206: 80 V, 2.2 mΩ

EPC7018: 100 V, 3.9 mΩ

EPC7019: 40 V, 1.5 mΩ

Rad-Hard

EPC7019

V_{DS} , 40 V

Typical $R_{DS(on)}$, 1.2 mΩ

Max $R_{DS(on)}$, 1.5 mΩ

I_D , 95 A

Pulsed I_D , 530 A

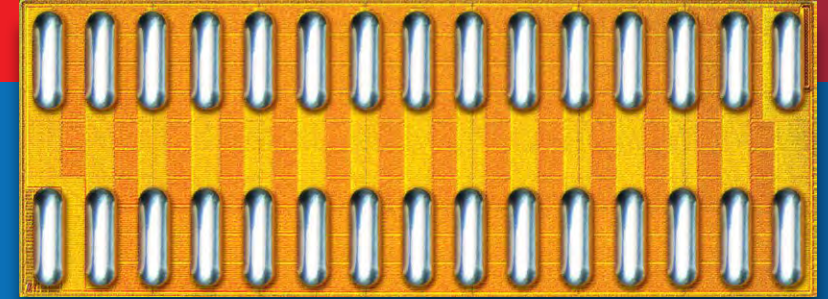
Typical Q_G , 22 nC

Typical Q_{GD} , 3.4 nC

Typical Q_{OSS} , 51 nC

Typical C_{OSS} , 1660 pF

$R_{\theta JC}$, 0.4°C/W



6.05 x 2.3 mm
(13.92 mm²)

← **BACK**

Scan for:
• Full Datasheet



Integrated Circuits

EPC2103: 80 V
Symmetrical Half Bridge,
30-60 continuous

EPC2103

V_{DS} , 80 V

Typical $R_{DS(on)}$, 4 m Ω

Max $R_{DS(on)}$, 5.5 m Ω

I_D , 30 A

Pulsed I_D , 195 A

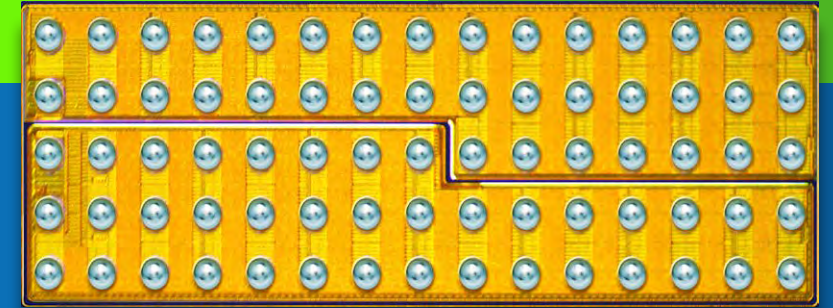
Typical Q_G , 6.5 nC

Typical Q_{GD} , 1.1 nC

Typical Q_{OSS} , 30 nC (Q1) / 34 nC (Q2)

Typical C_{OSS} , 445 pF (Q1) /
525 pF (Q2)

$R_{\theta JC}$, 0.3°C/W



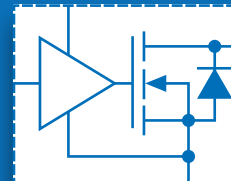
6.05 x 2.3 mm
(13.92 mm²)

Half
Bridge
Eval
Board



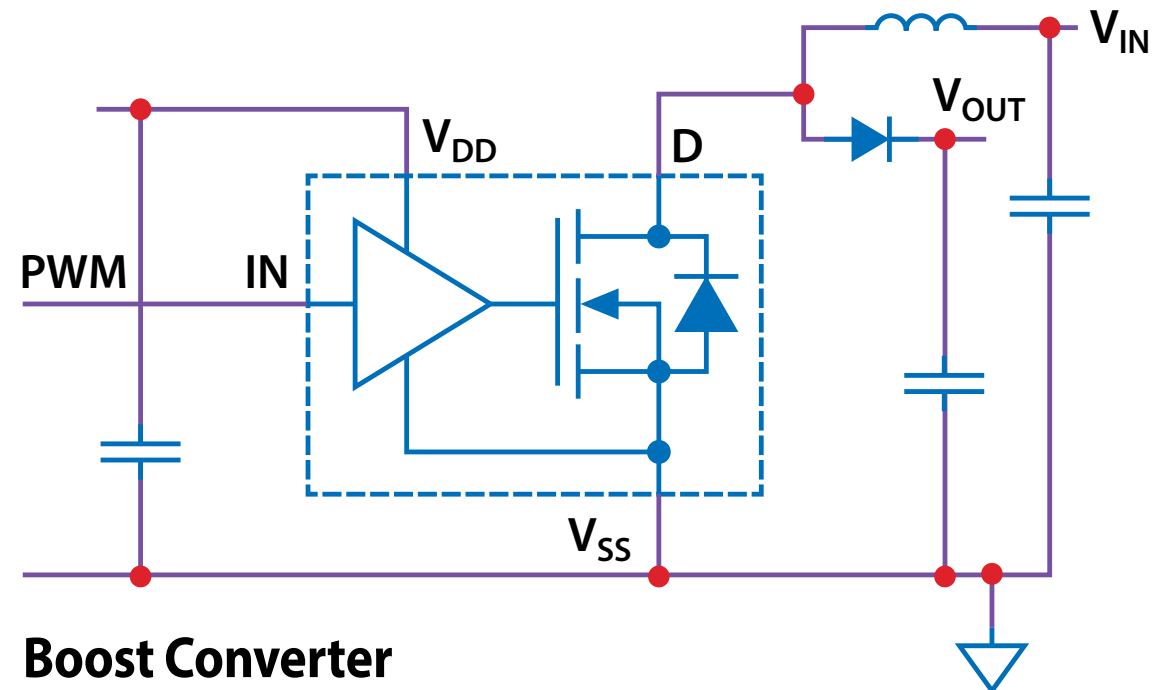
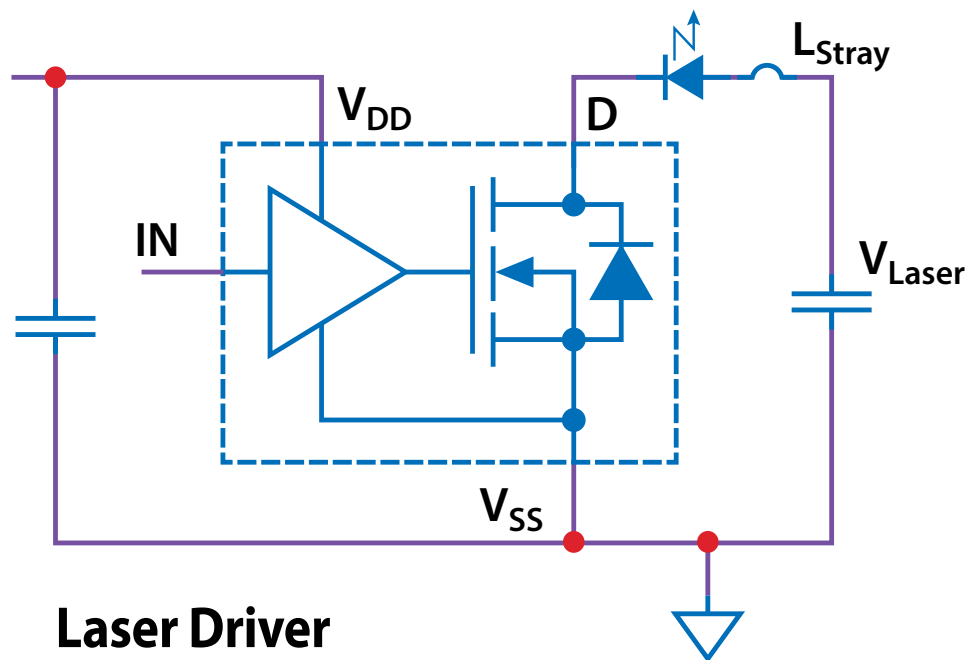
Scan for:

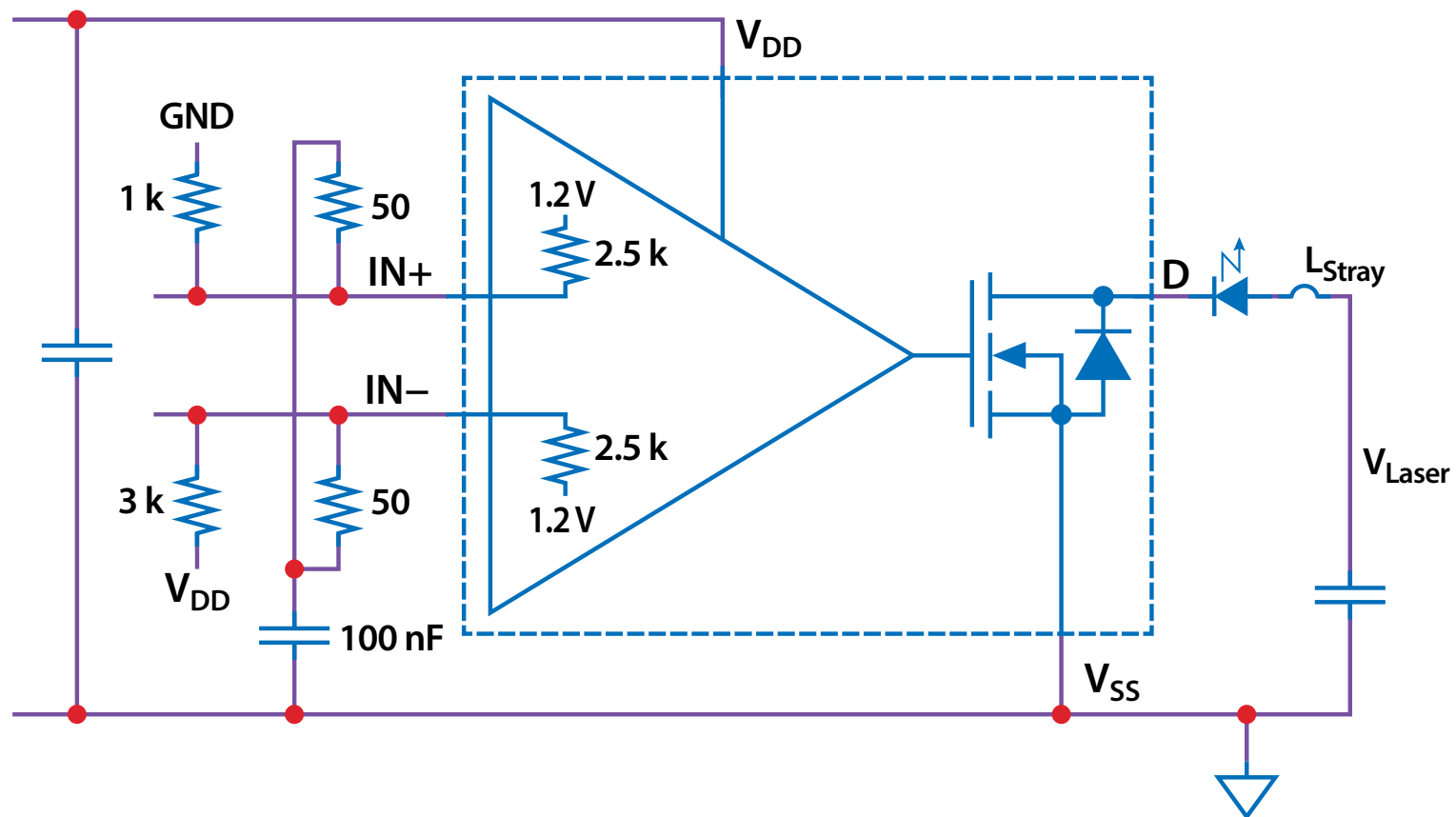
- Full Datasheet
- Half-Bridge Evaluation Board: EPC9039, 80 V, 17 A

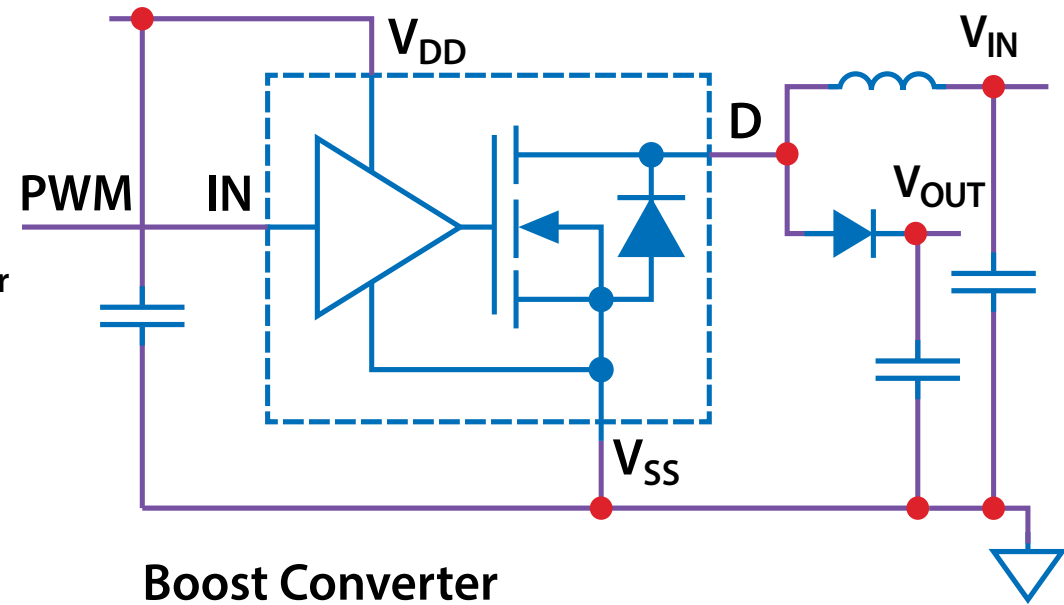
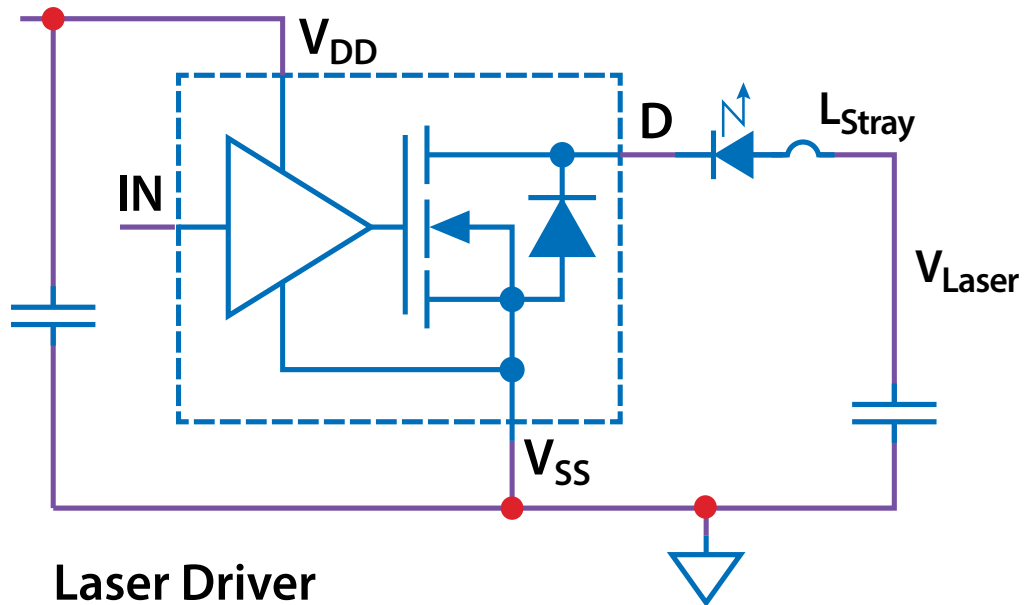


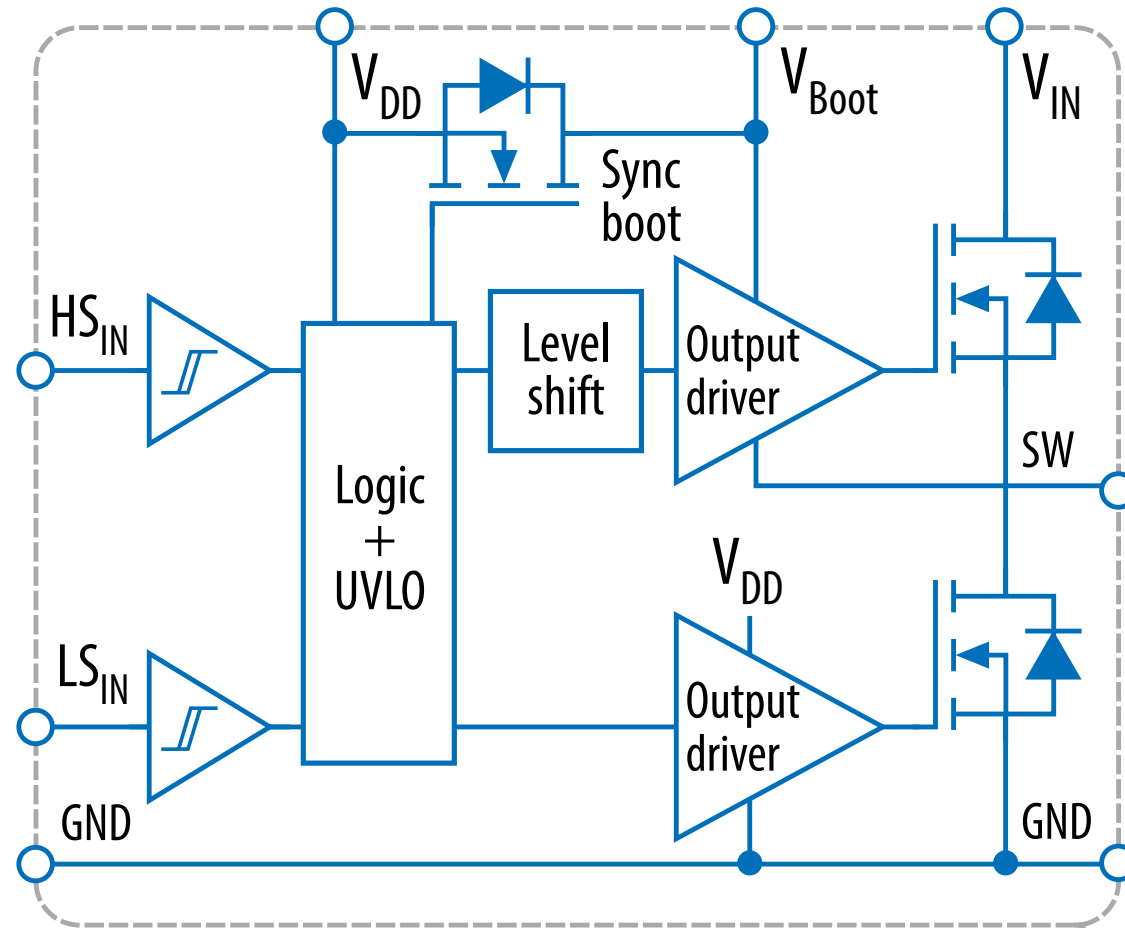
View schematic

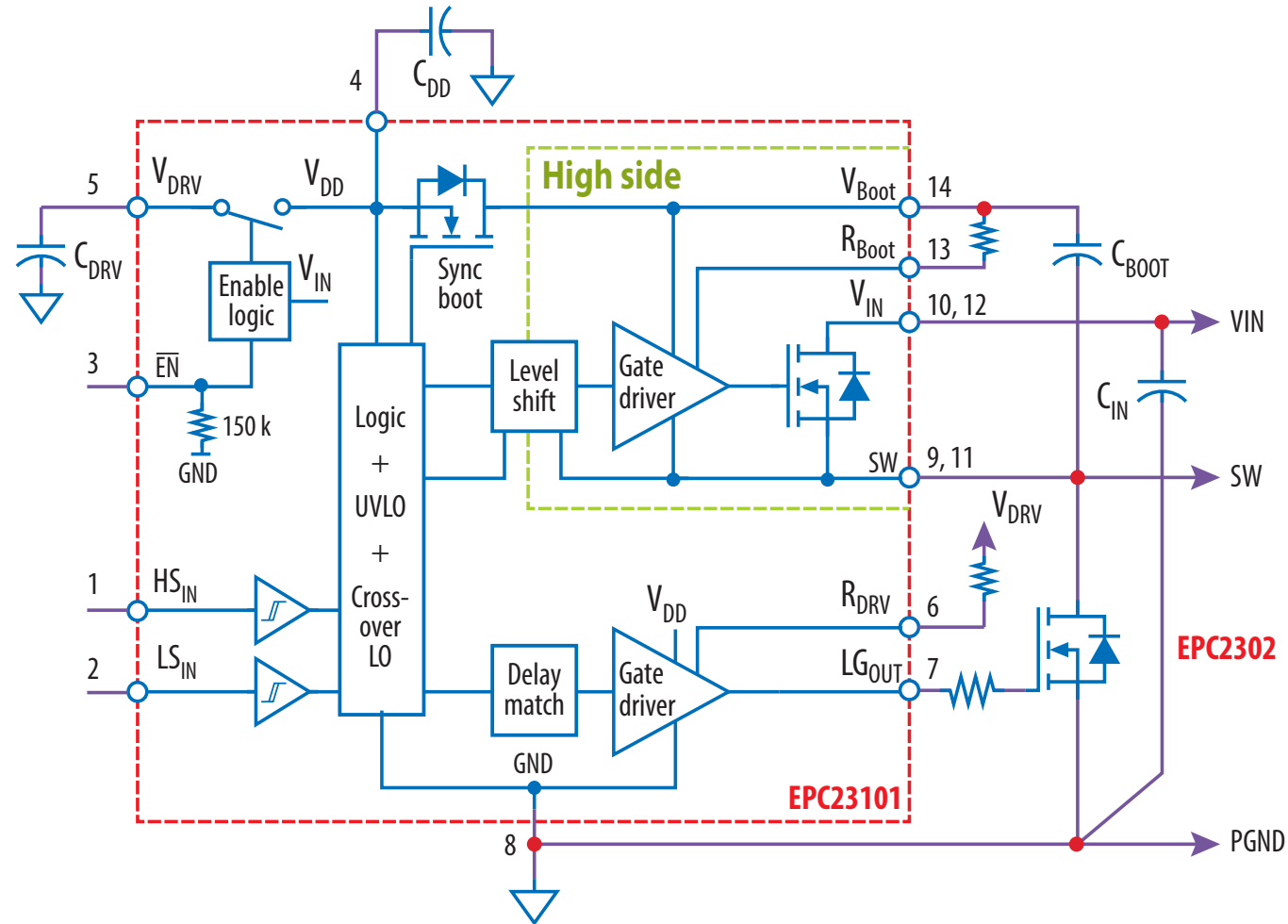
←
BACK

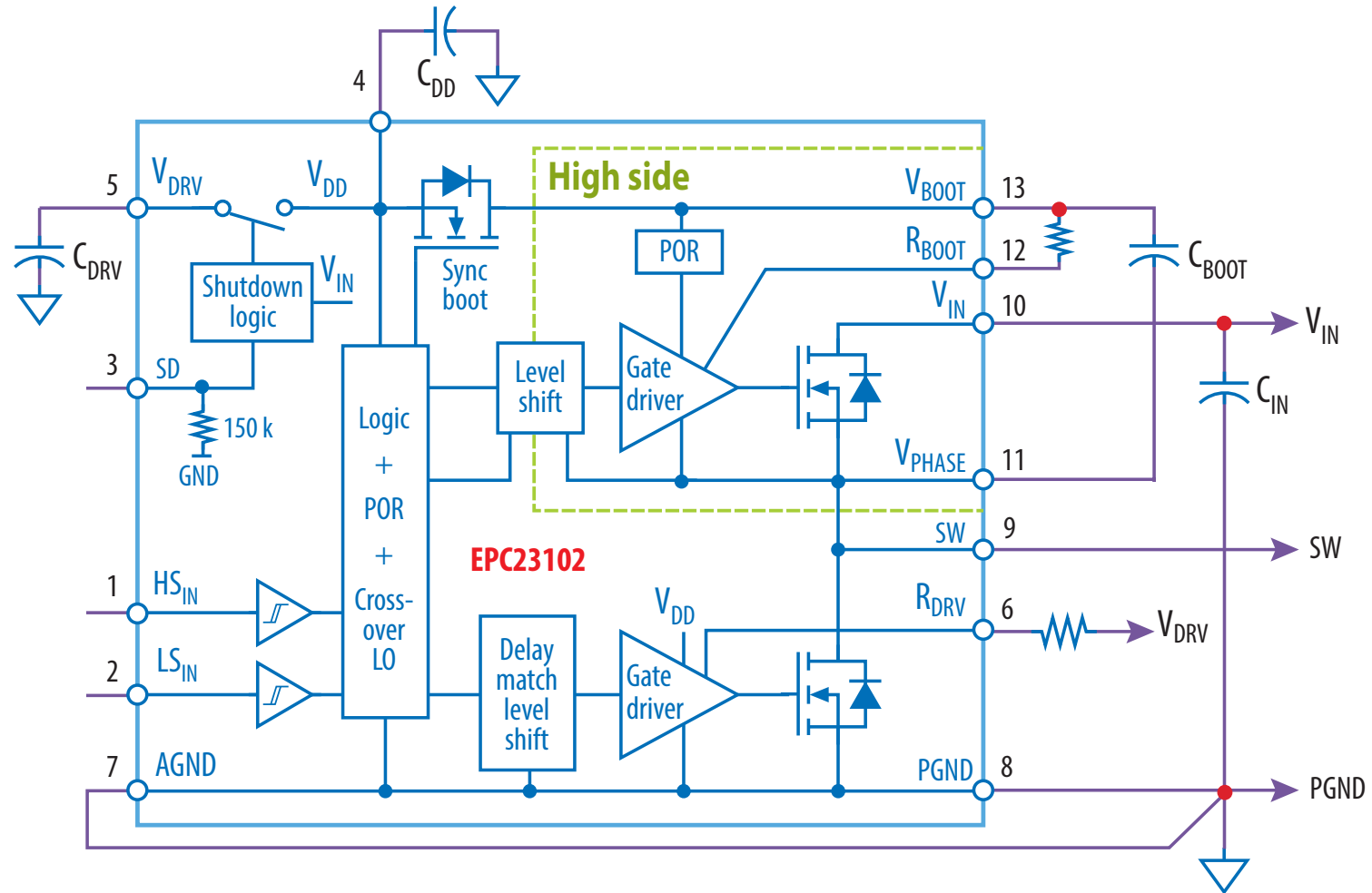


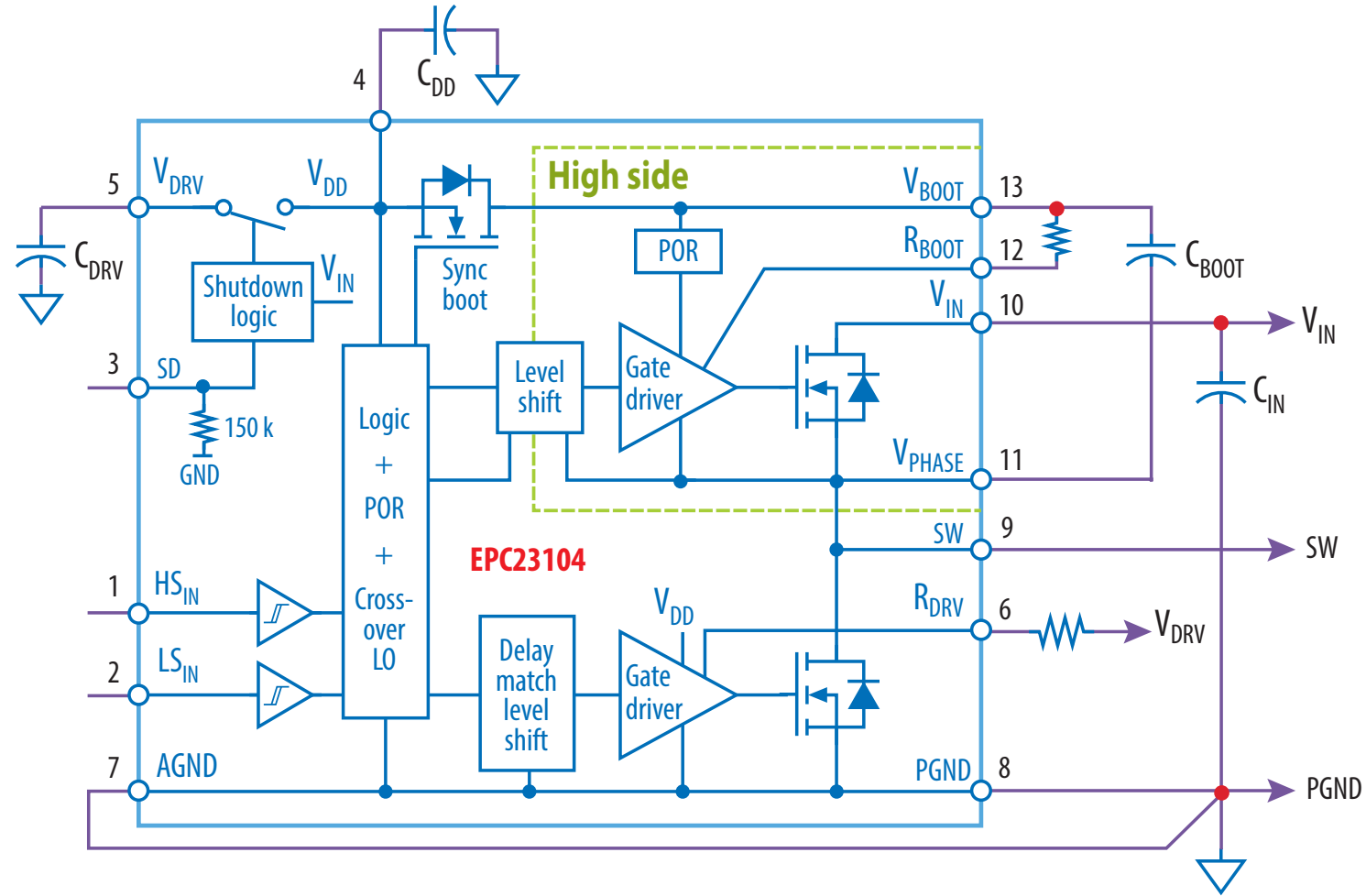


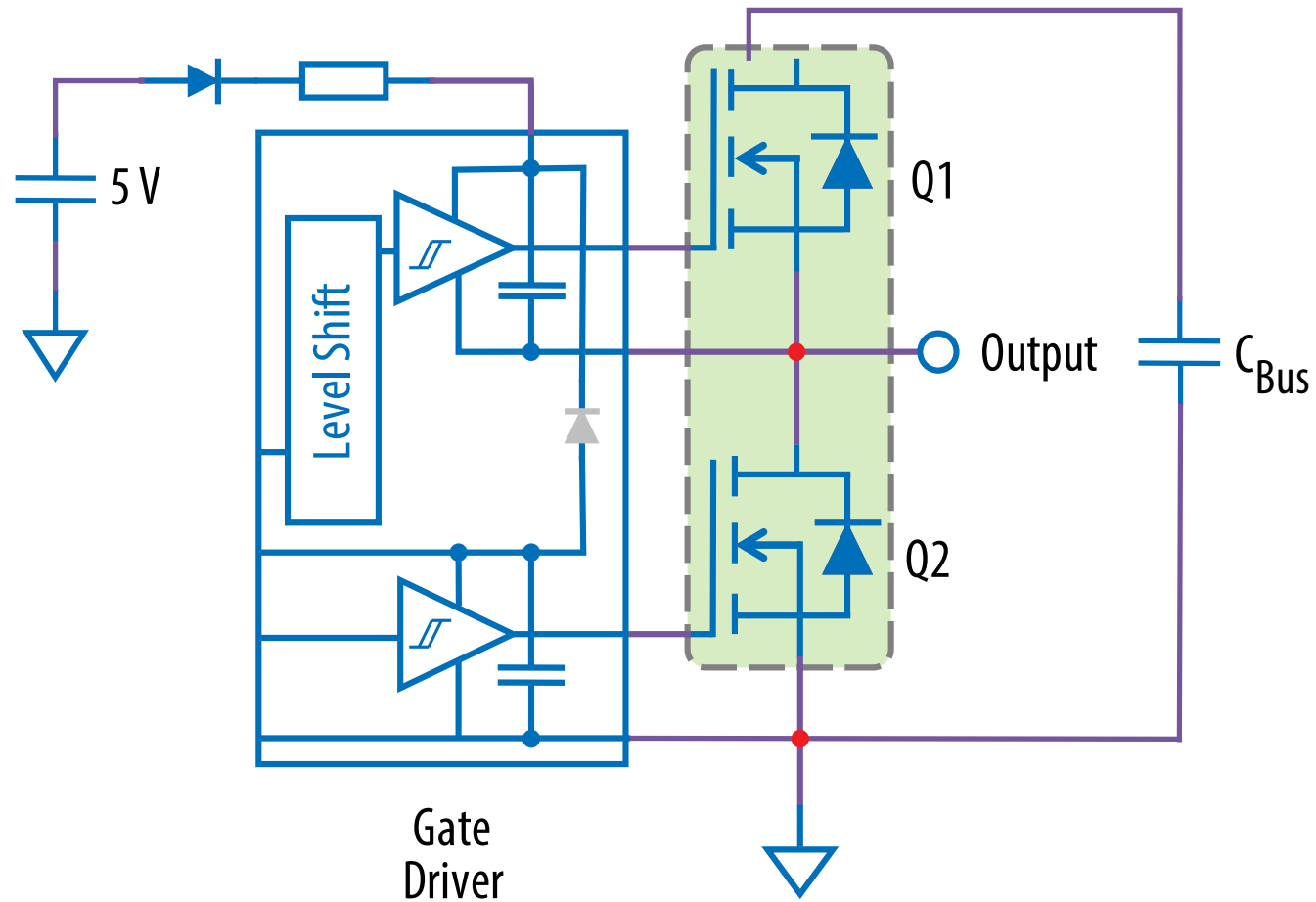


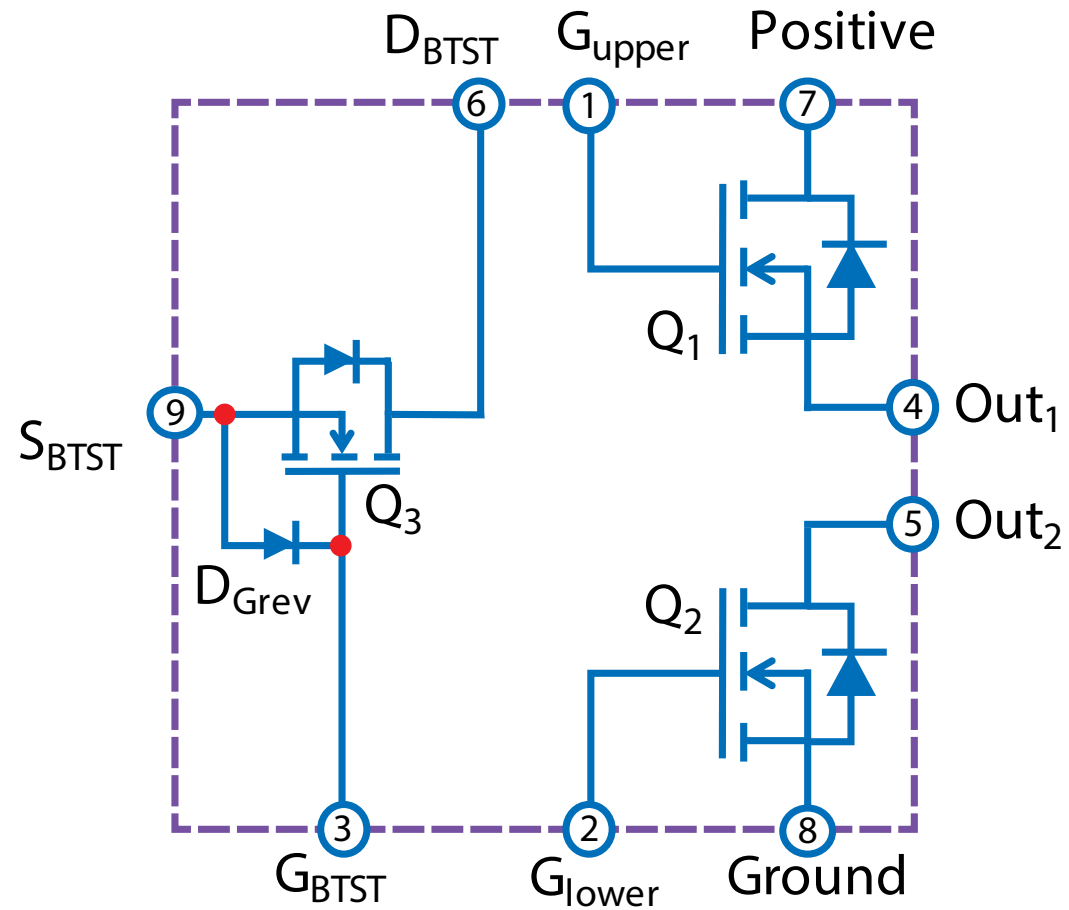


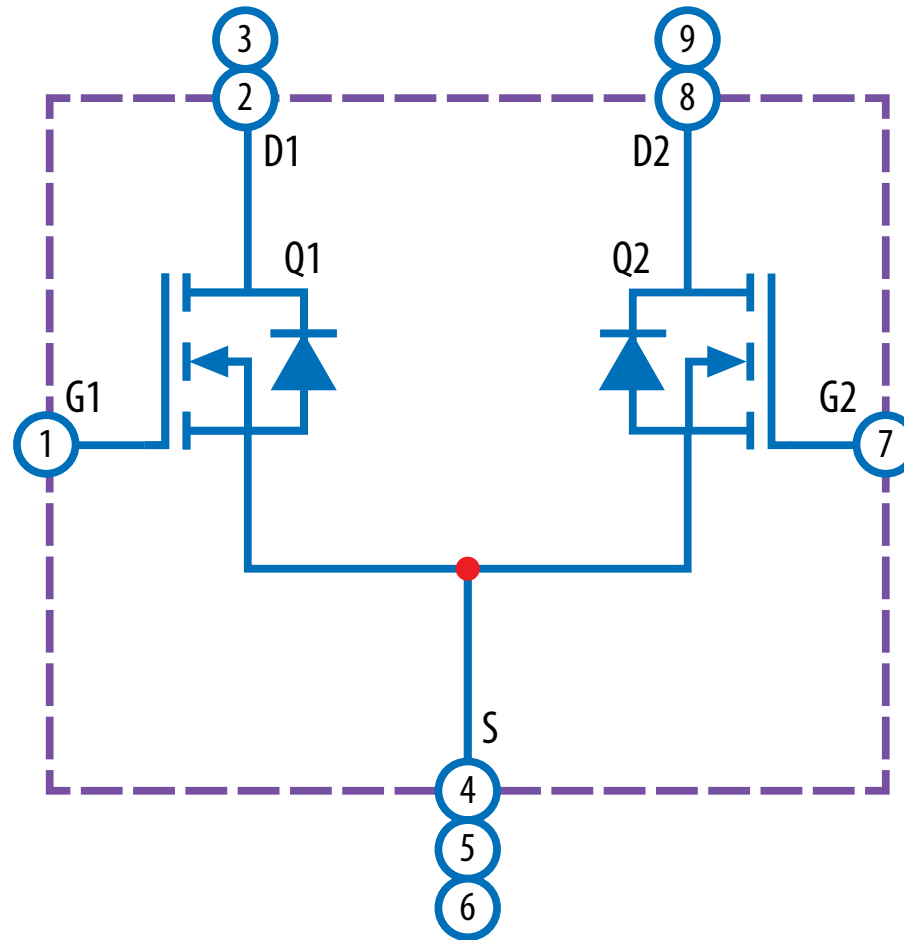


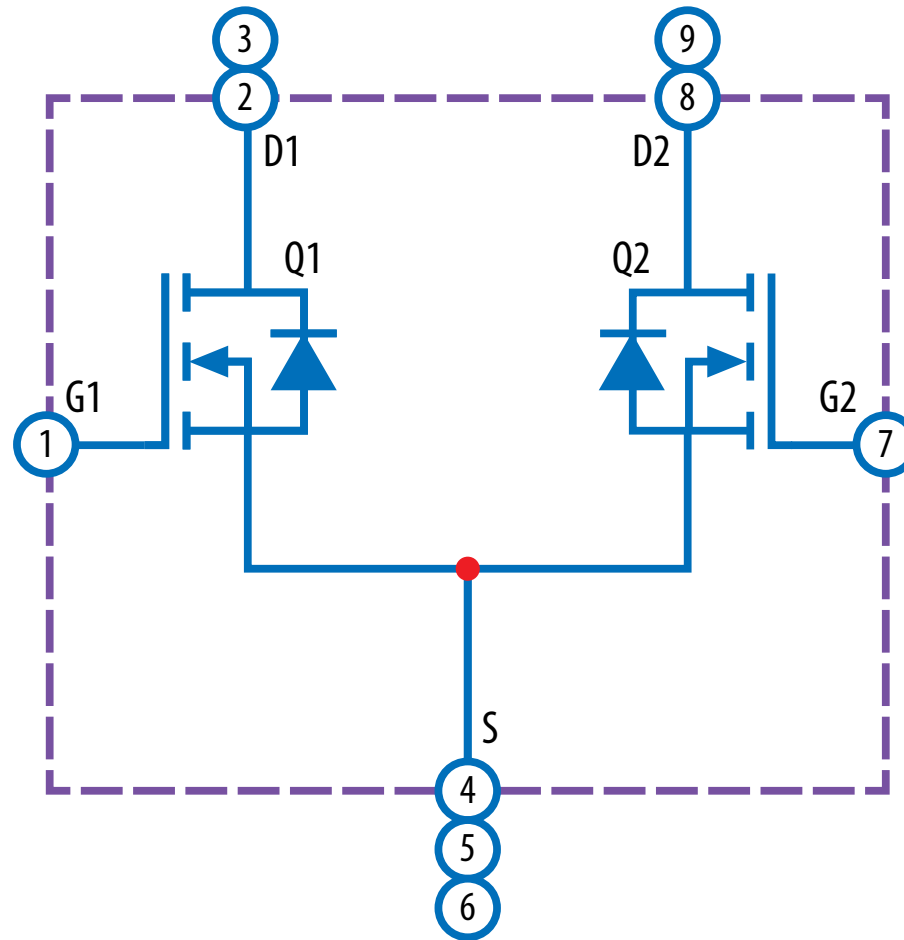


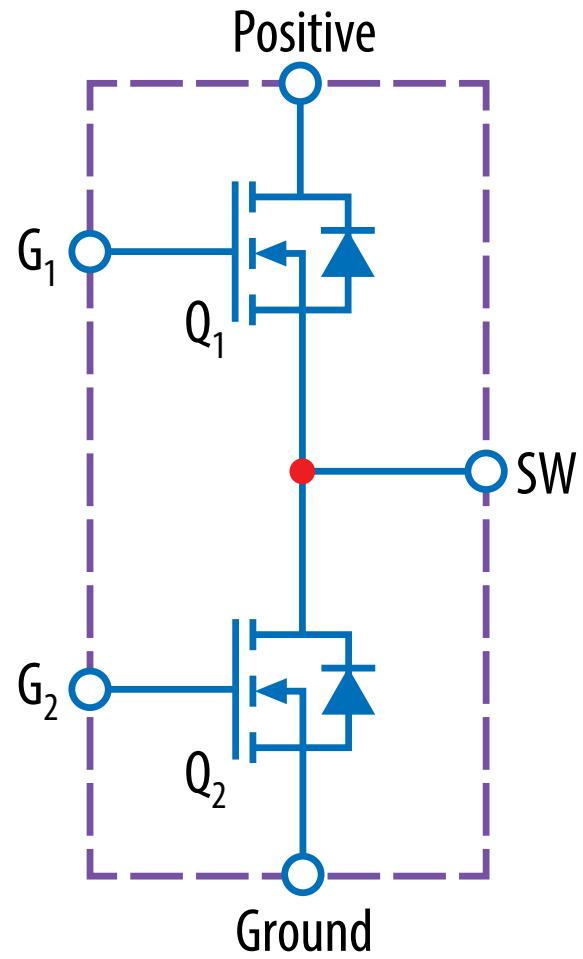


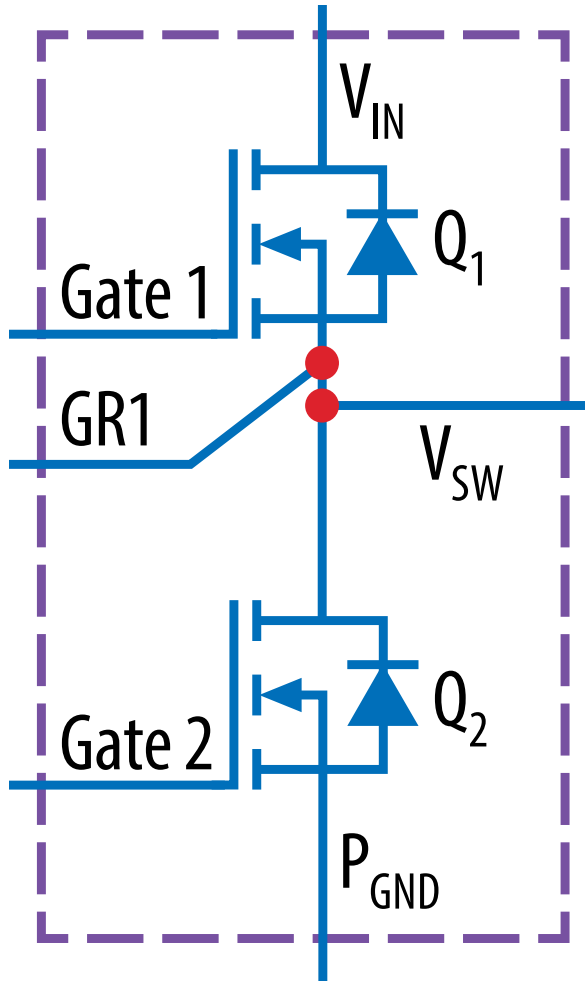












EPC2057: 50 V, 7.5 mΩ

Commercial

EPC2057

V_{DS} , 50 V

Typical $R_{DS(on)}$, 6 mΩ

Max $R_{DS(on)}$, 8.5 mΩ

I_D , 9.6 A

Pulsed I_D , 66 A

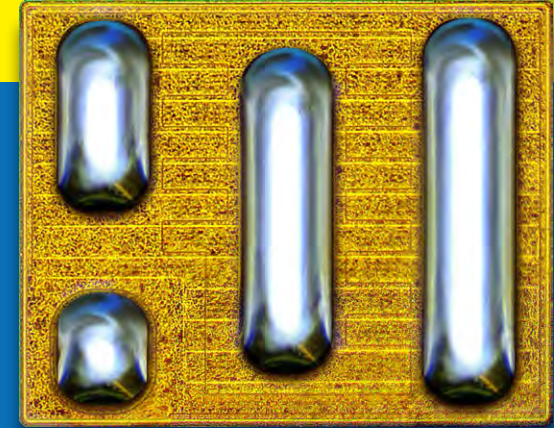
Typical Q_G , 3 nC

Typical Q_{GD} , 0.5 nC

Typical Q_{OSS} , 7.9 nC

Typical C_{OSS} , 172 pF

$R_{\theta JC}$, 2.3°C/W



1.5 x 1.2 mm
(1.8 mm²)

Half
Bridge
Eval
Board



Scan for:

- Full Datasheet
- Half-Bridge Evaluation Board: EPC90155, 40 V, 10 A



← **BACK**

Automotive

EPC2234: 160 V, 6 m Ω

EPC7020: 200 V, 11 m Ω

EPC2234

V_{DS} , 160 V

Typical $R_{DS(on)}$, 6 m Ω

Max $R_{DS(on)}$, 8 m Ω

I_D , 48 A

Pulsed I_D , 213 A

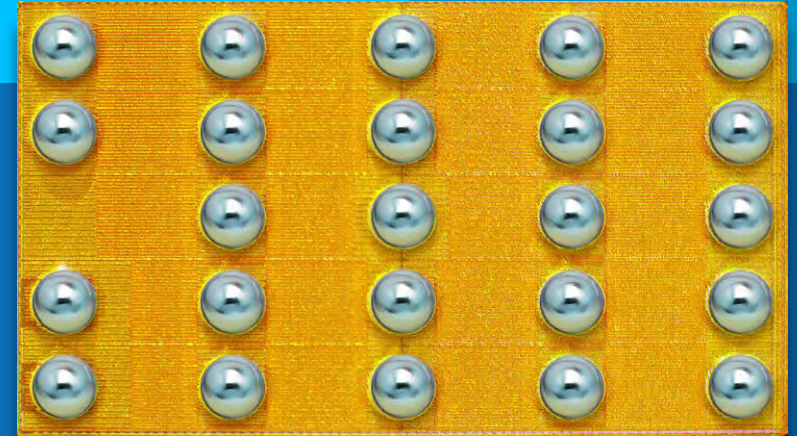
Typical Q_G , 11.1 nC

Typical Q_{GD} , 2.0 nC

Typical Q_{OSS} , 96 nC

Typical C_{OSS} , 641 pF

$R_{\theta JC}$, 0.3°C/W



4.6 x 2.6 mm
(11.96 mm²)

Scan for:

- Full Datasheet



BACK