

/ Descriptions

TO-252 P
P-CHANNEL MOSFET in a TO-252 Plastic Package.

/ Features

$V_{DS} (V) = -60V$ $I_D = -14 A (V_{GS} = 20V)$
 $R_{DS(on)1@-10V} 100m (Type.83m)$
 $R_{DS(on)2@-4.5V} 130m (Type.100m)$
AEC-Q101
Qualified to AEC-Q101 Standards for High Reliability, HF Product.

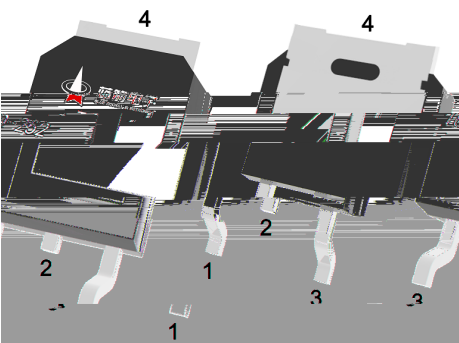
/ Applications

LED
Motor Drive,Power Tools,LED Lighting, Meet the stringent requirements of automotive applications.

/ Equivalent Circuit



/ Pinning



PIN1 G PIN 2 D PIN 3 S PIN 4 D

/ Marking

See Marking Instructions.

BRCS1C0P06DPQ

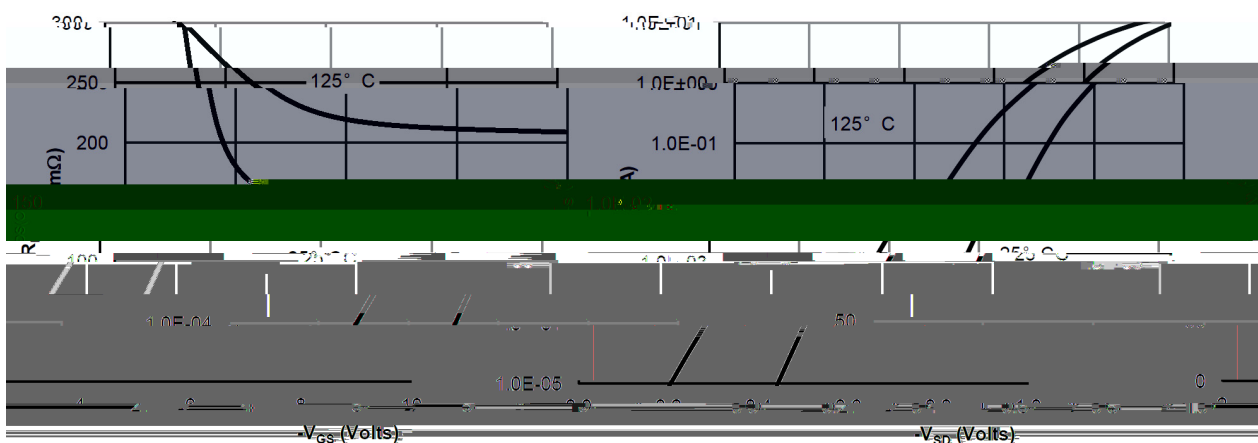
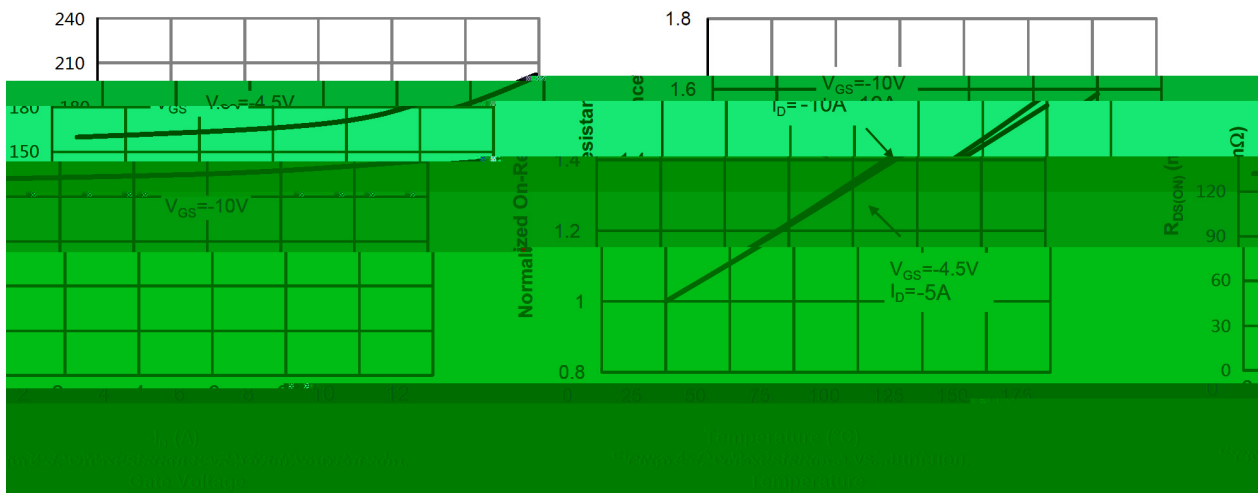
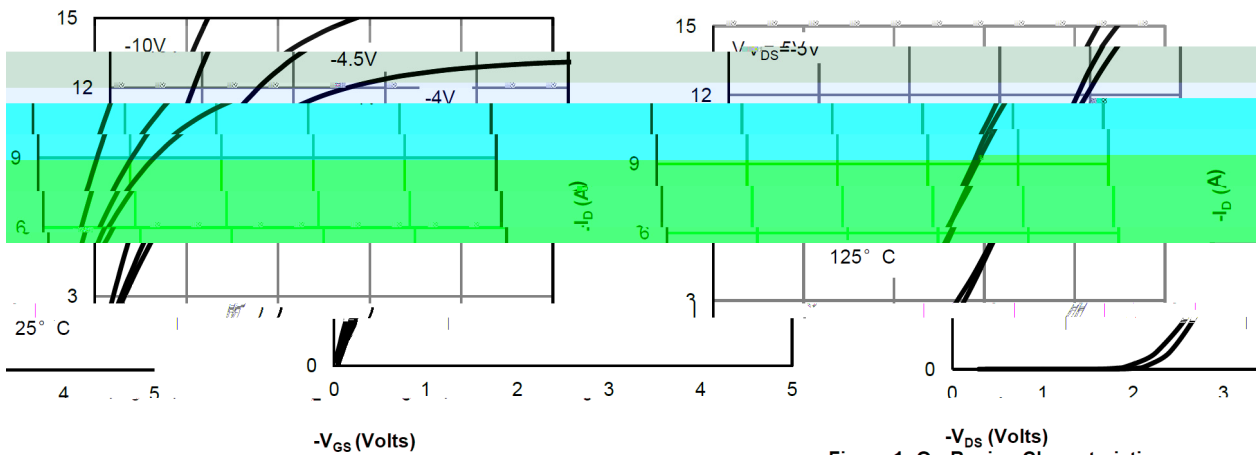
Rev.A Apr.-2025



DATA SHEET

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	-60	V

/ Electrical Characteristic Curve



/ Electrical Characteristic Curve

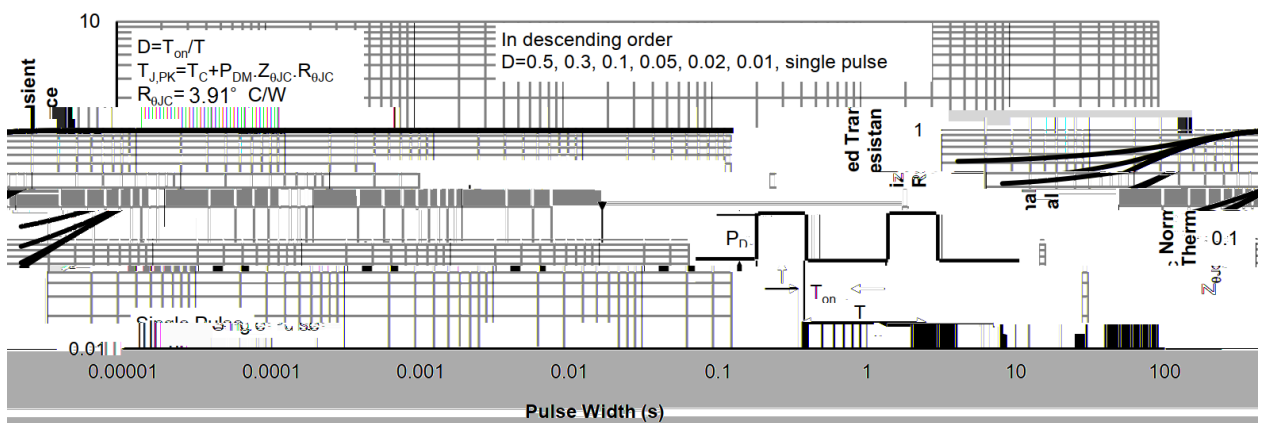
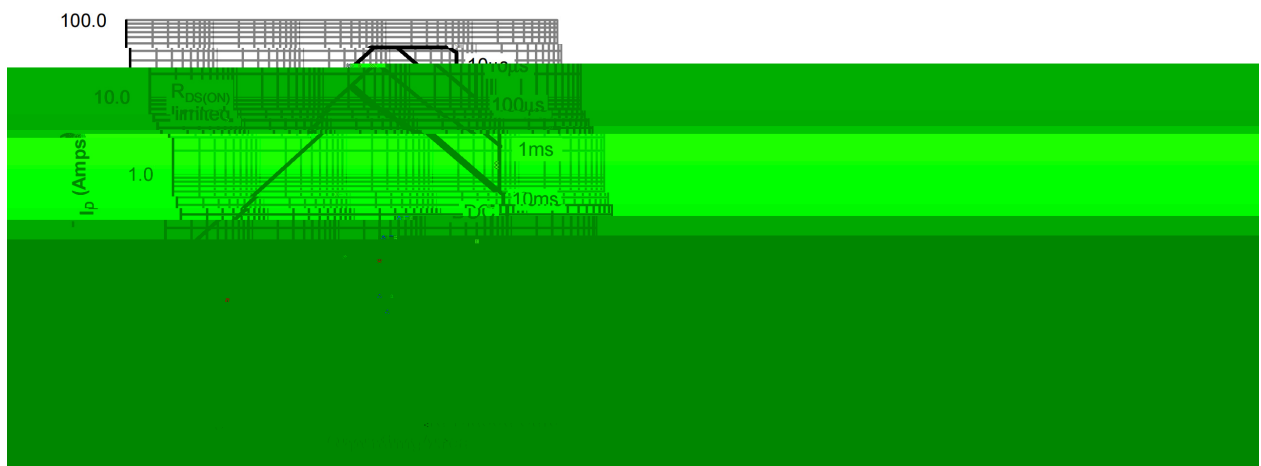
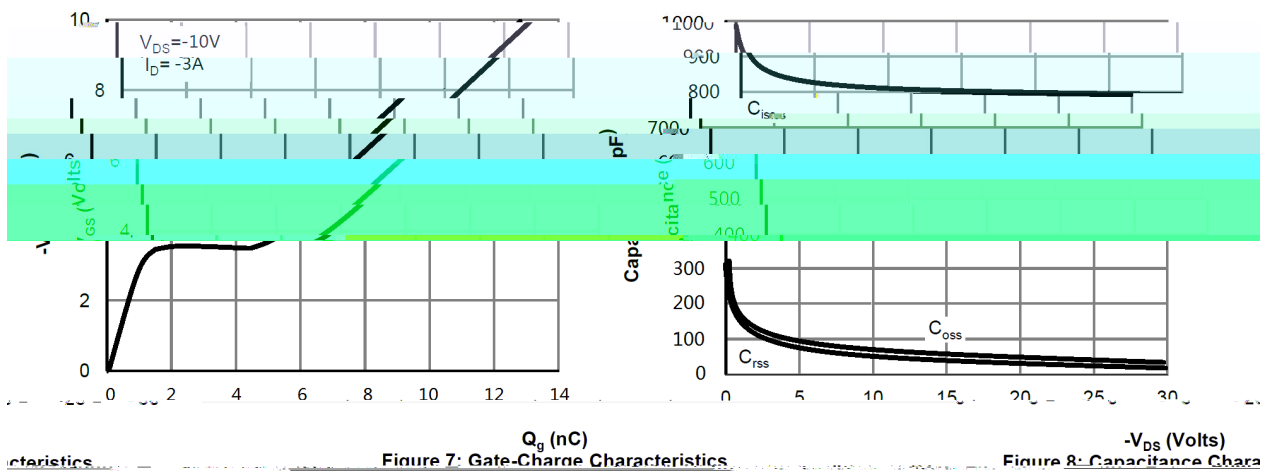


Figure10: Normalized Maximum Transient Thermal Impedance

Ø □ =) ¢ / Package Dimensions

, M y f / Marking Instructions

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Note:

BR:

Company Code

Q:

Automobile halogen-free product Code

1C0P06:

Product Type Code

*****:

Lot No. Code, code change with Lot No

šWD t...•Ž¢ (x/) / :KSVKXGZ[XK 6XULORK LUX /8 8KLRU] 9URJKXOTM 6

^a¢y

1o• Ä½ “† 150½200 - kž• 60½120sec;
2o• Q> “† 255 r5 - kž• 4 Ò 5 r0.5sec;
3o•D N ò i Ò 0 ,† 2½10 - /sec.

Note:

1.Preheating:150~200 - , Time:60~120sec.
2.Peak Temp.:255 r5 - , Duration:5 r0.5sec.
3. Cooling Speed: 2~10 - /sec.