

BRCS1C0P06MCQ

Rev.B Aug.-2025

5 é / Descriptions

SOT23-3 .> // x P 3 « | • 'ož

6 CHANNEL MOSFET in a SOT23 -3 Plastic Package.

□^a / Features

$V_{DS} = -60V$; $I_D = -3A$

$R_{DS(on)1@-10V} 0.100m\Omega$ (Type.83m Ω)

$R_{DS(on)2@-4.5V} 0.130m\Omega$ (Type.100m Ω)

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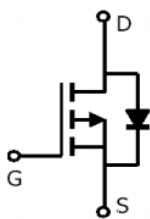
Qualified to AEC-Q101 Standards for High Reliability, HF Product.

Đ ÷ / Applications

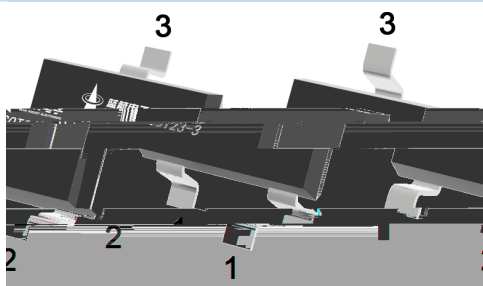
6 = 3 • ħ ú • ¼ k á V ñ • } Lož

PWM application & Load switch, Meet the stringent requirements of automotive applications.

Ã W] Ô • / Equivalent Circuit



• Ů - æ / Pinning



PIN1 y G

PIN 2 y S

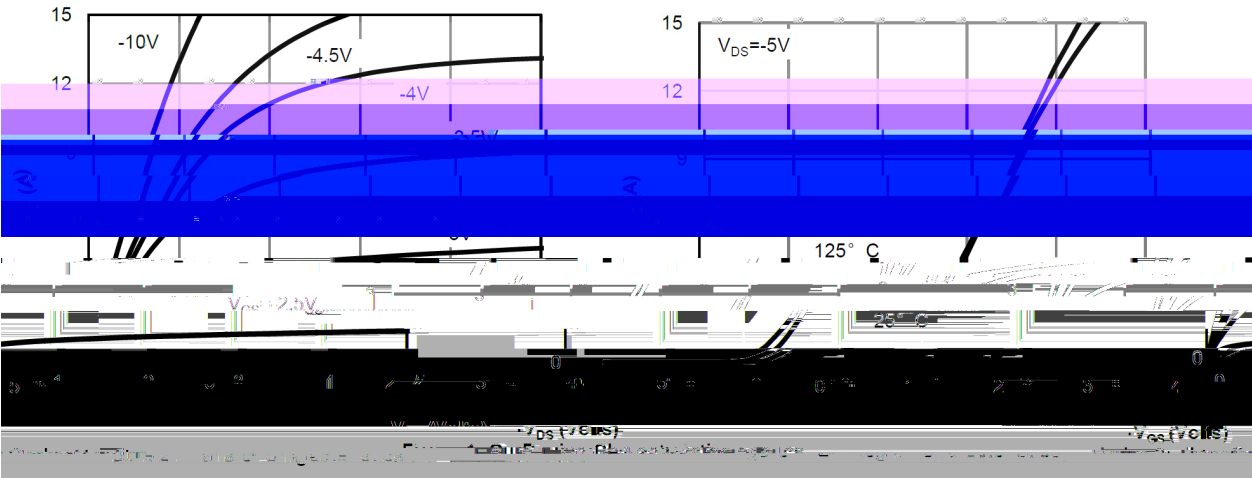
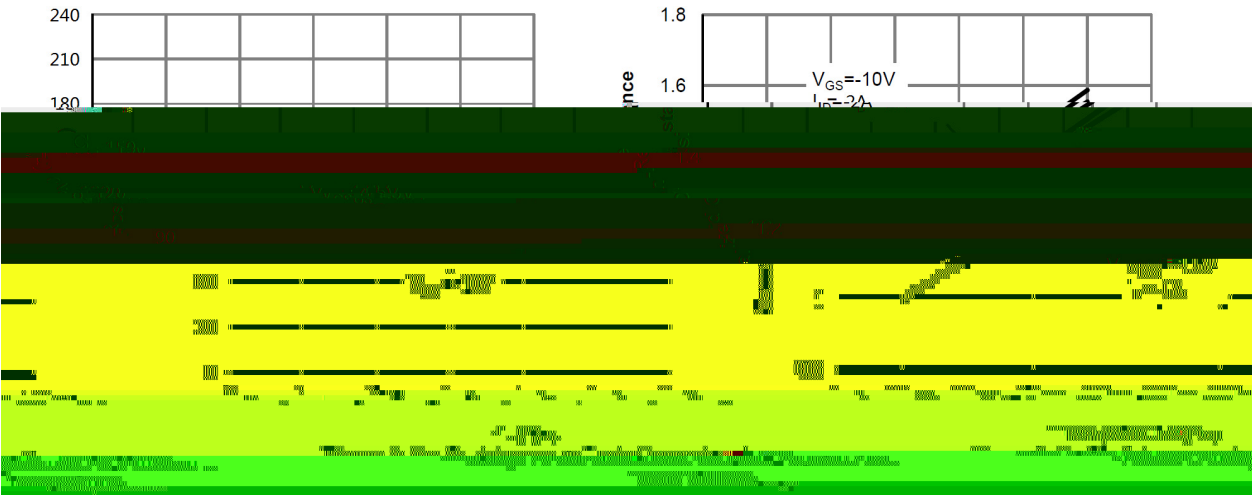
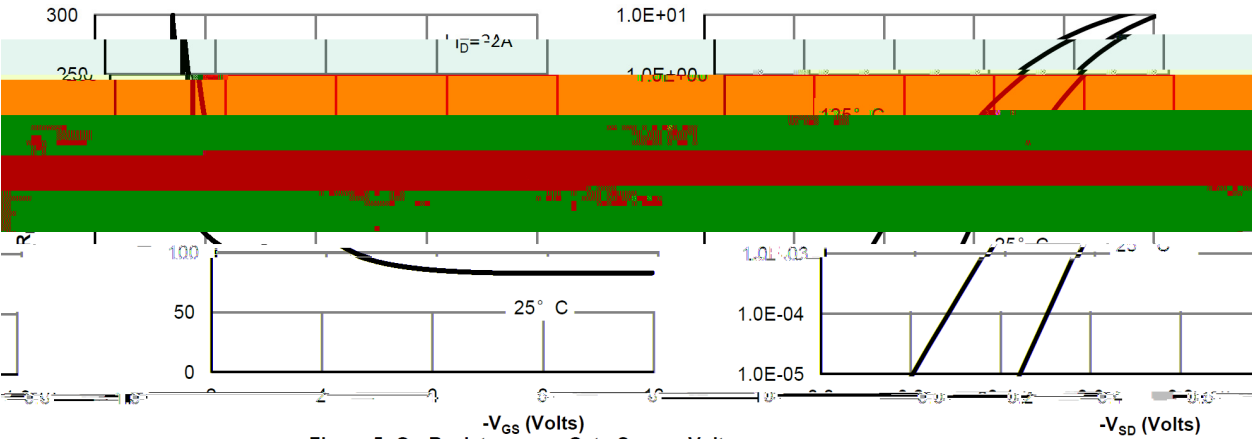
PIN 3 y D

, M V / Marking

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See Marking Instructions.

Electrical Characteristic Curve

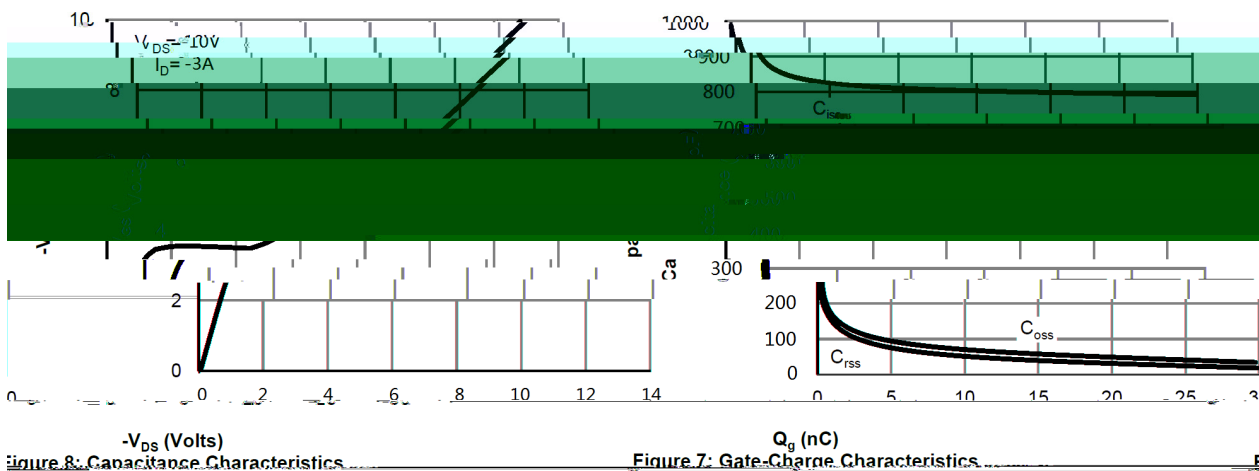
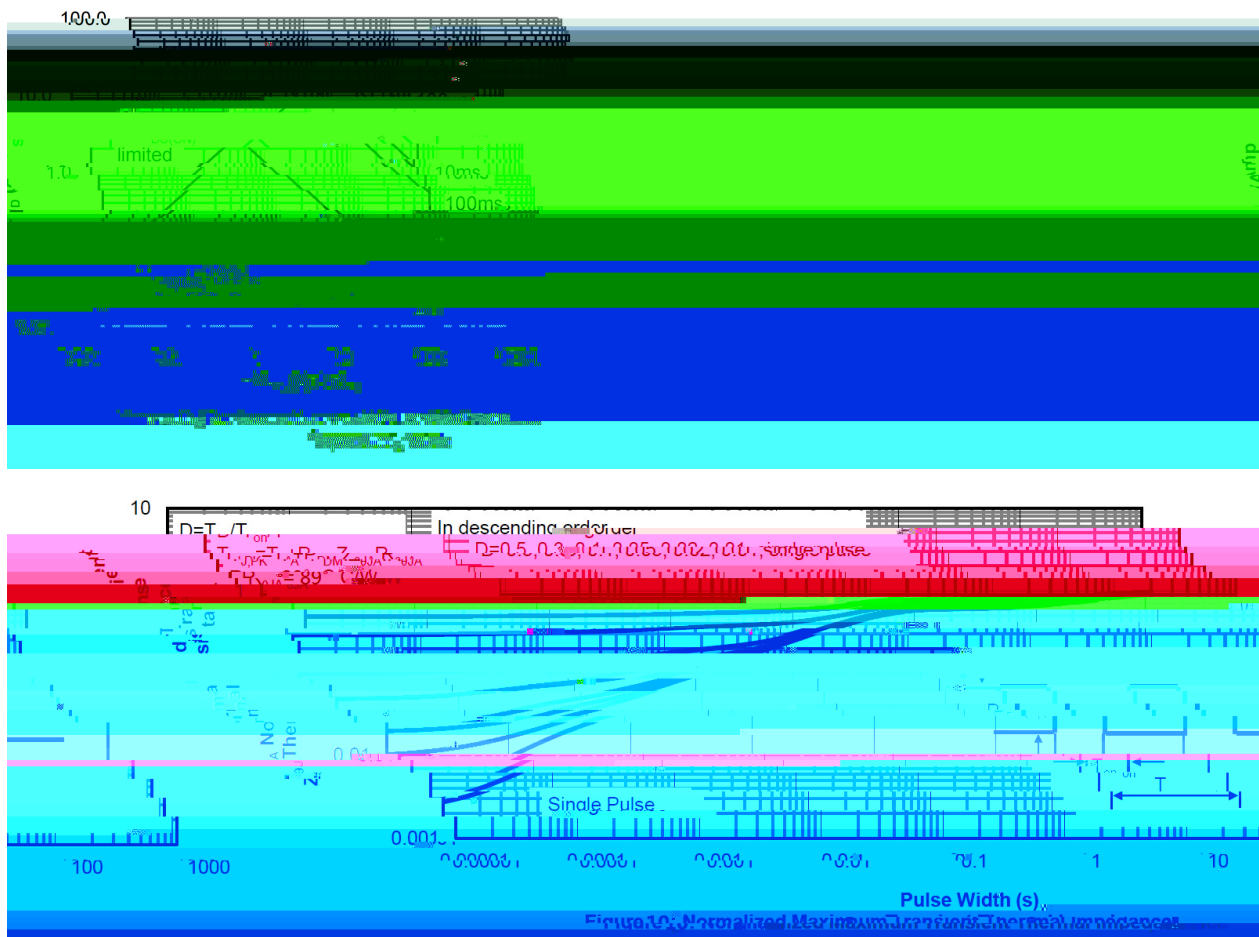


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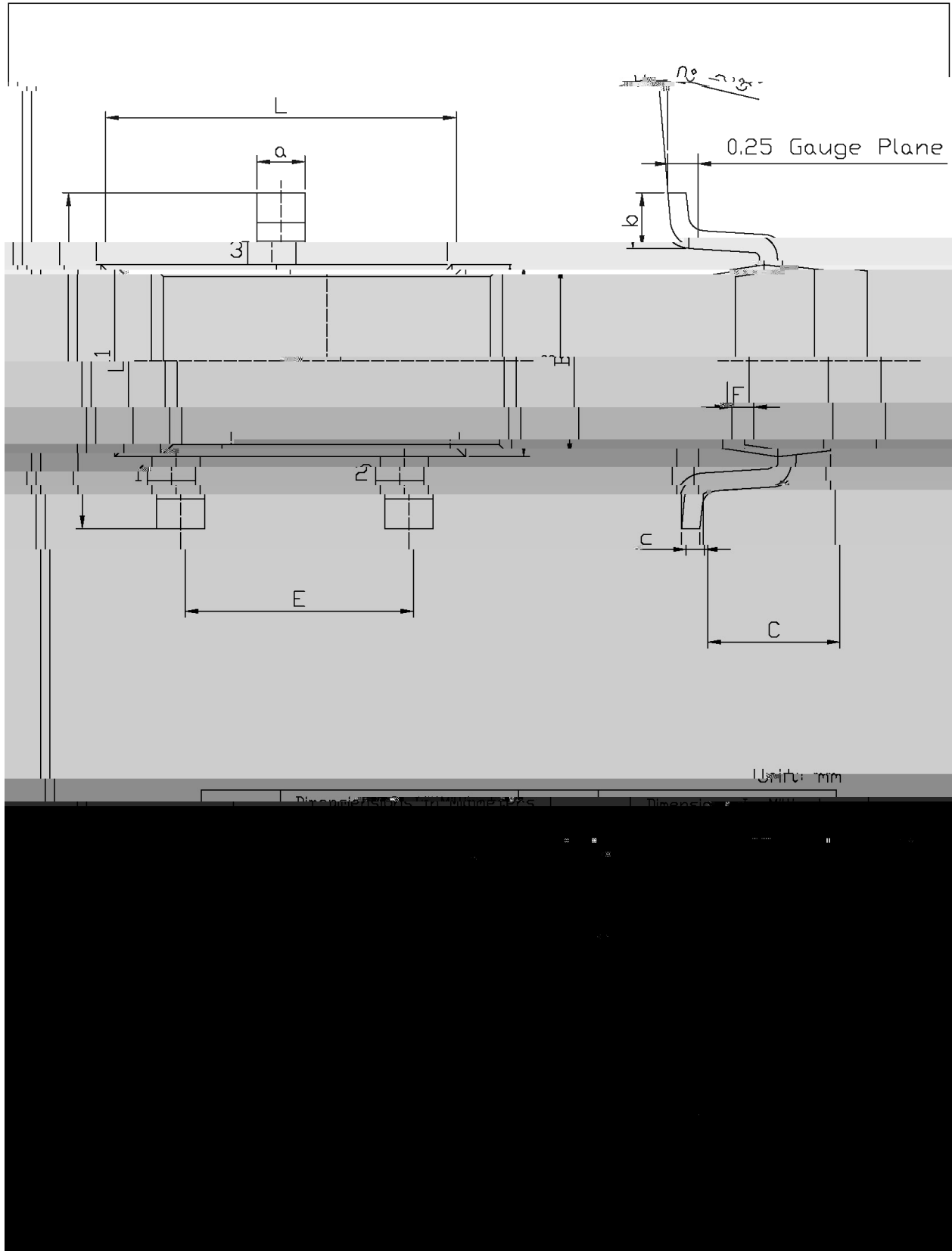
Figure 5: On-Resistance vs. Gate-Source Voltage

Figure 6: Body-Diode Character

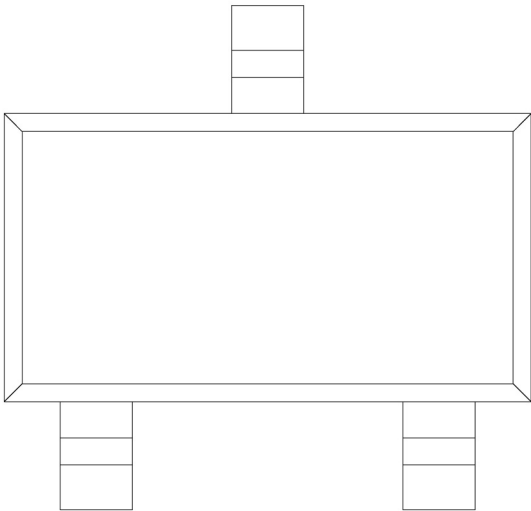
Electrical Characteristic Curve



Ø □ =) ⌀ / Package Dimensions



, M y f / Marking Instructions



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

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Note:

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|--|---|
| 1o• Ä ½ “† 150 ½200 - k ž • 60 ½120sec; | 1.Preheating:150~200 - , Time:60~120sec. |
| 2o• Q > “† 255 r5 - k ž • 4 Ò 5 r0.5sec; | 2.Peak Temp.:255 r5 - , Duration:5 r0.5sec. |
| 3o•D N ò i Ò 0 ,† 2 ½10 - /sec. | 3.Cooling Speed: 2~10 - /sec. |

ÂD /Cã p ¯ »] / Resistance to Soldering Heat Test Conditions

“†y 260 r5 - ž •y 10 r1 sec. Temp.:260±5 Time:10±1 sec

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