

BRCS1C0P06DSCQ

Rev.A Dec.-2023

/ Descriptions

SOP-8 P MOS

Double P-CHANNEL MOSFET in a SOP-8 Plastic Package.

/ Features

$V_{DS}=-60V$; $I_D=-3.5A$

$R_{DS(on)1}@-10V \leq 100m\Omega$ (Type.83m Ω)

$R_{DS(on)2}@-4.5V \leq 130m\Omega$ (Type.100m Ω)

AEC-Q101

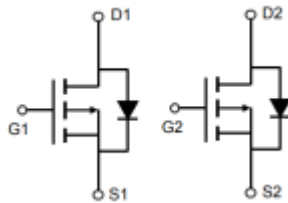
Qualified to AEC-Q101 Standards for High Reliability,

HF Product.

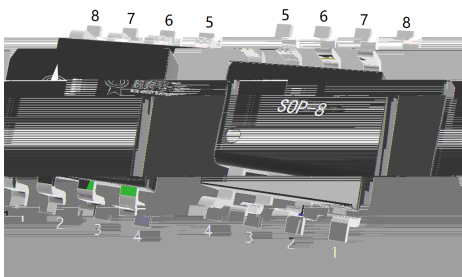
/ Applications

Power Management in Computer, Portable Equipment and Battery Powered Systems, Load Switches, Motor Control, Meet the stringent requirements of automotive applications.

/ Equivalent Circuit



/ Pinning



PIN1	S1	PIN 2	G1	PIN 3	S2	PIN 4	G2
PIN 5	D2	PIN 6	D2	PIN 7	D1	PIN 8	D1

/ Marking

See Marking Instructions.

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DATA SHEET

Parameter		Symbol	Rating	Unit
Drain–Source Voltage		V_{DSS}	-60	V
Gate–Body Leakage Voltage		V_{GSS}	± 20	V
Drain Current – Continuous		I_D	-3.5	A
Pulsed Drain Current		I_{DM}	-16	A
Power Dissipation		P_D	2	W
Operating and Storage Temperature Range		T_J, T_{STG}	-55 150	
Maximum Junction-to-Ambient	Steady-State	$R_{\theta JA}$	62.5	/W

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain–Source Breakdown Voltage	$V_{(BR)DSS}$	$V_{GS}=0V$ $I_D=-250$				

/ Electrical Characteristic Curve

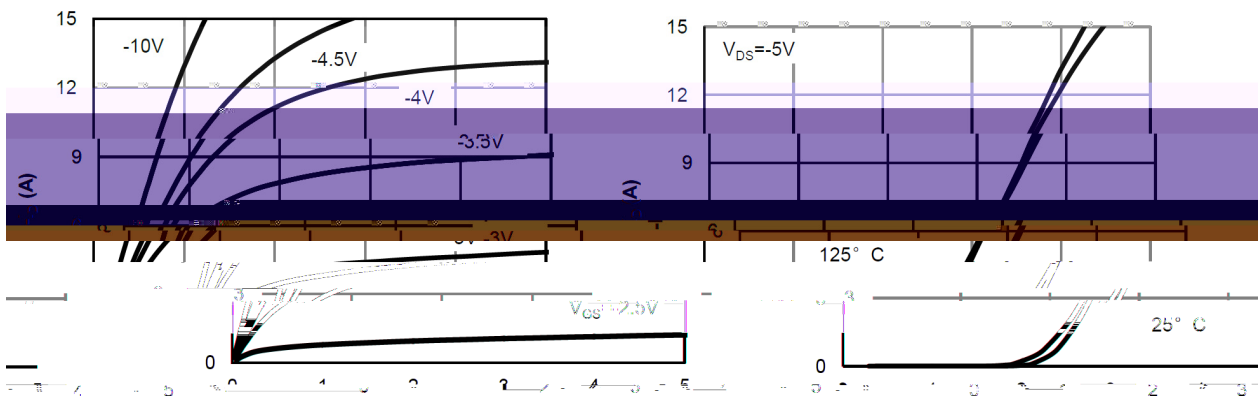


Figure 2: Transfer Characteristics

Figure 1: On-Region Characteristics

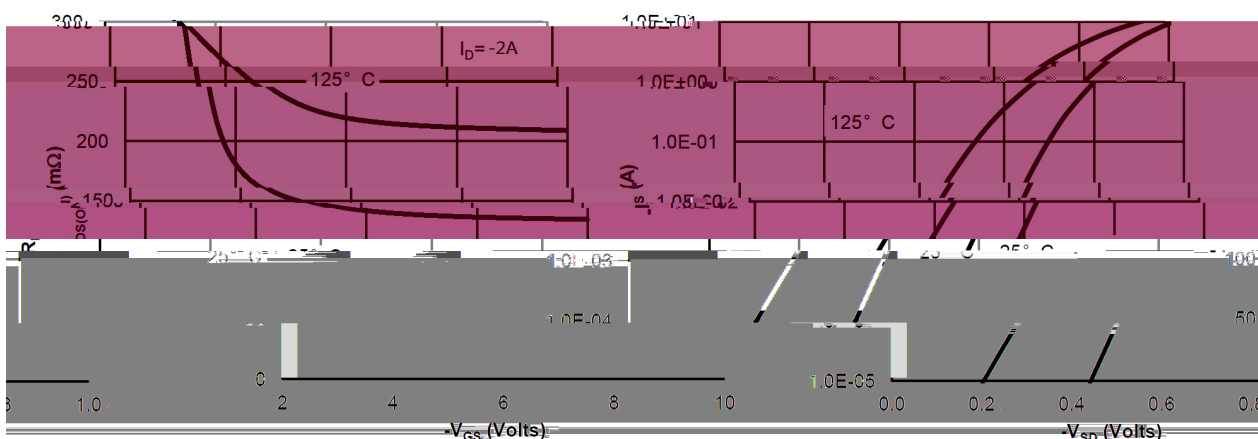
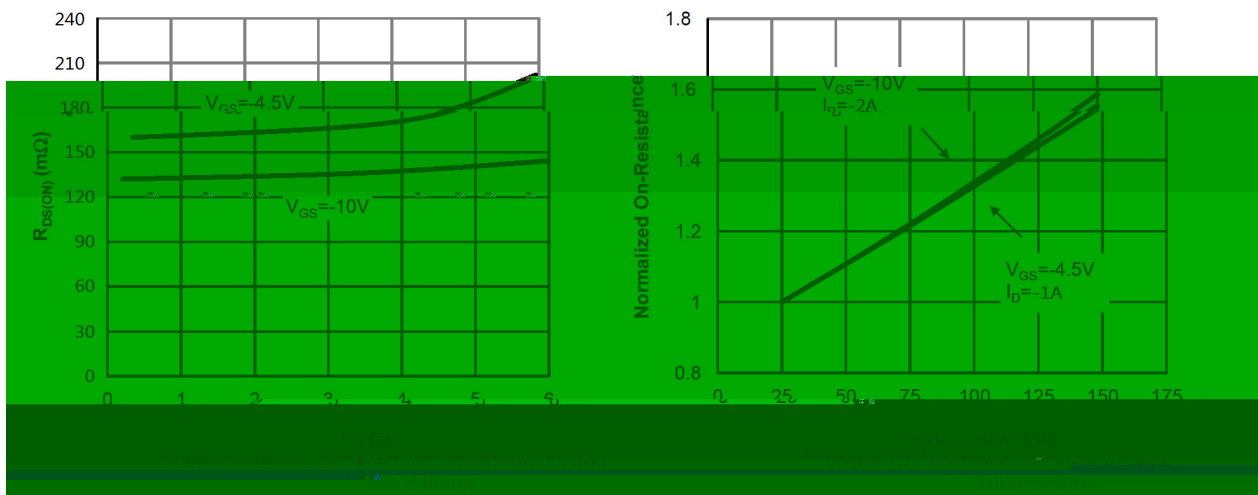


Figure 5: On-Resistance vs. Gate-Source Voltage

Figure 6: Body Diode Characteristics

/ Electrical Characteristic Curve

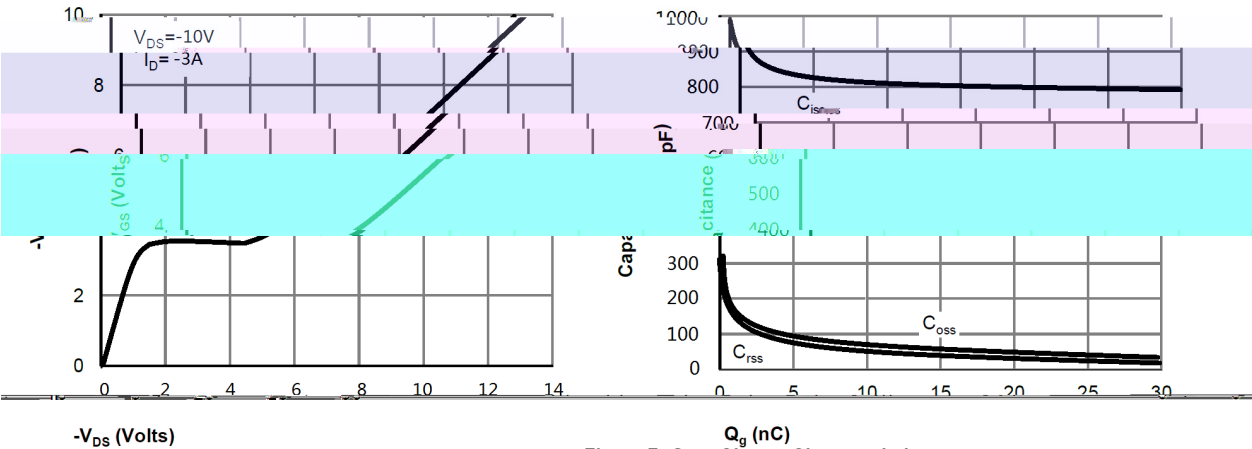
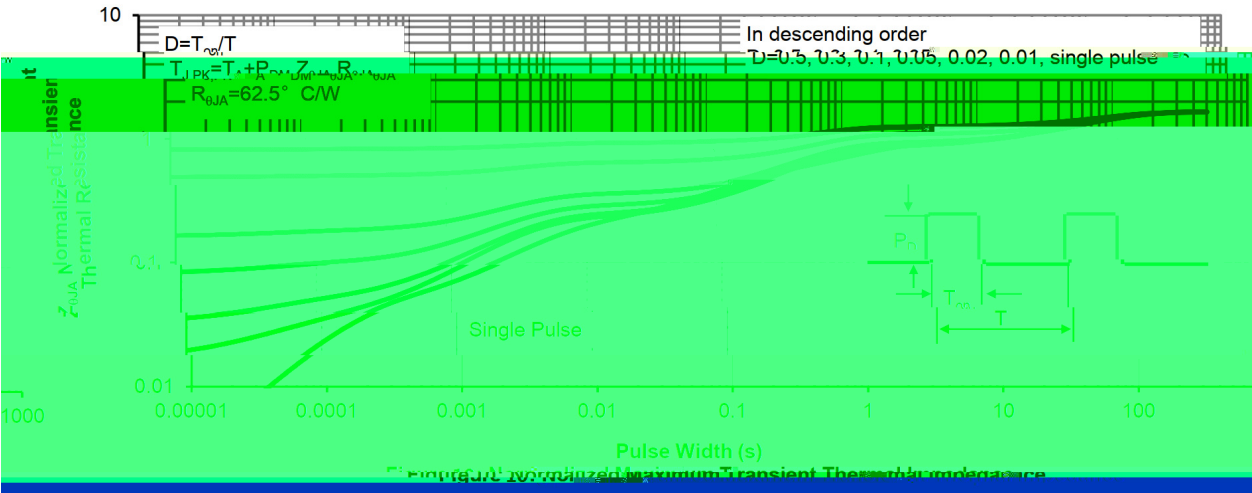
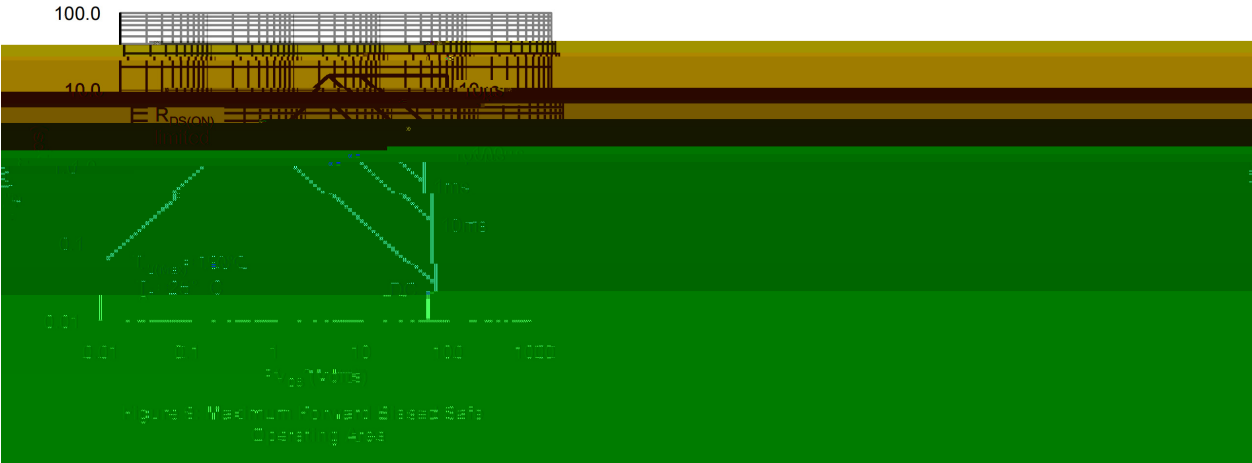
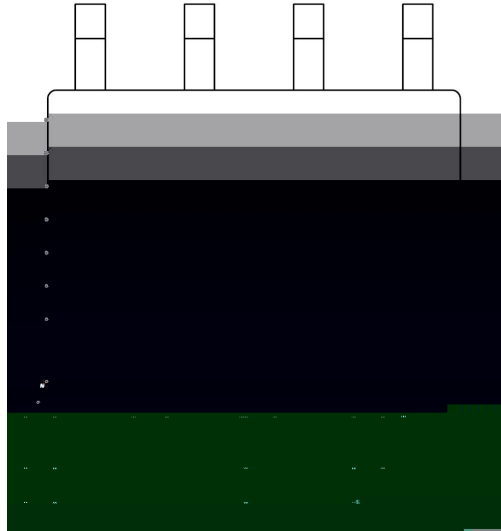


Figure 8: Capacitance Characteristics

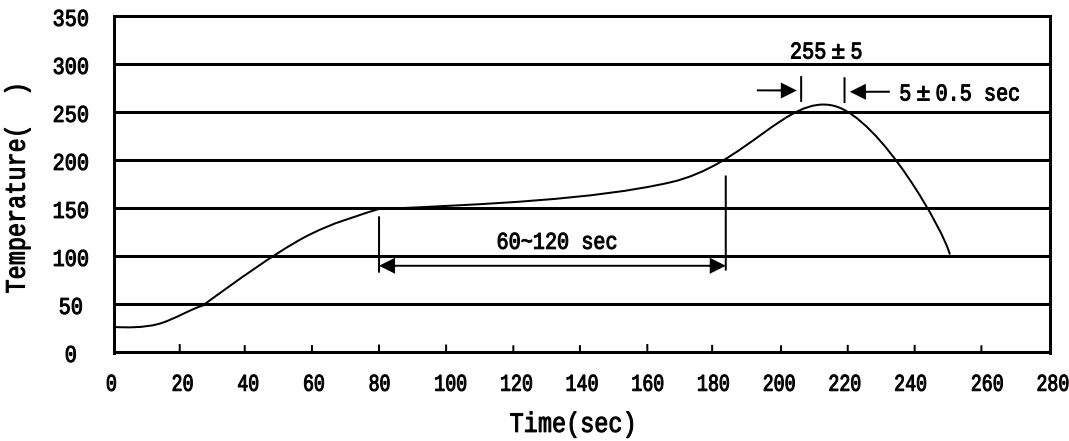




/ Marking Instructions



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Note:

- 1

150 200

60 120sec;

1.Preheating:150~200 , Time:60~120sec.
- 2

255±5

5±0.5sec;

2.Peak Temp.:255±5 , Duration:5±0.5sec.
- 3

2 10 /sec.

3. Cooling Speed: 2~10 /sec.

/ Resistance to Soldering Heat Test Conditions

260±5 10±1 sec. Temp.:260±5 Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type	Units					Dimension (unit mm ³)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
SOP/ESOP-8	4,000	2	8,000	6	48,000	13 ×12	360×360×50	380×335×366

/ Notices