

BRCS1C0P06DSCQ

Rev.A Dec.-2023

/ Descriptions

SOP-8 P MOS

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

/ Features

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

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

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

AEC-Q101

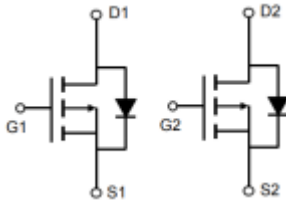
Qualified to AEC-Q101 Standards for High Reliability,

HF Product.

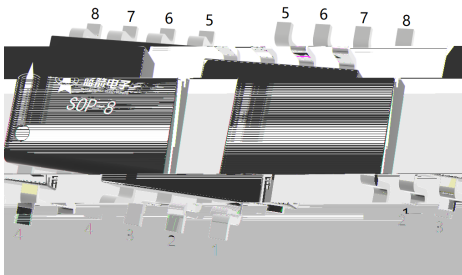
/ Applications

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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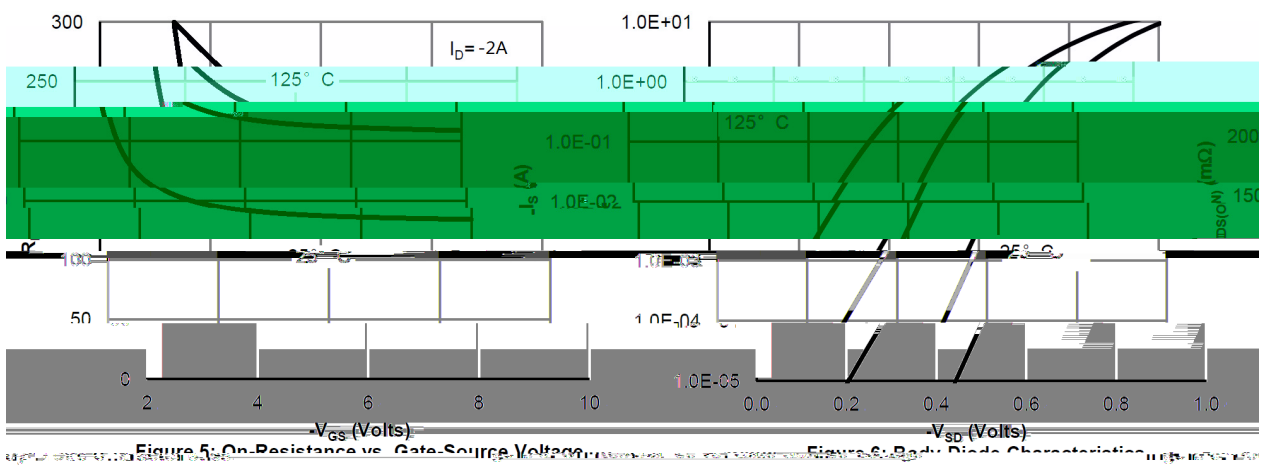
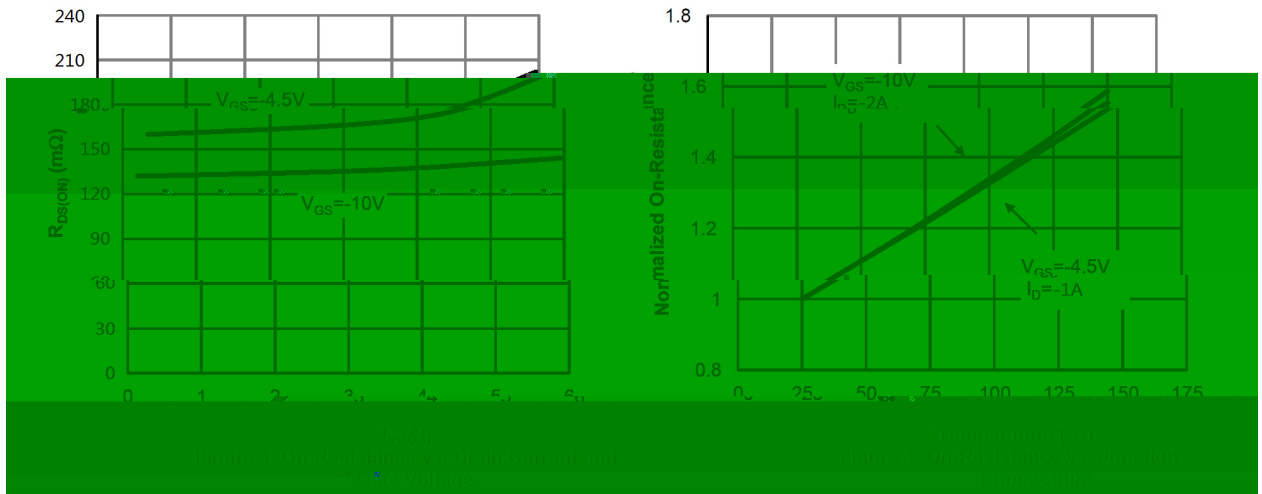
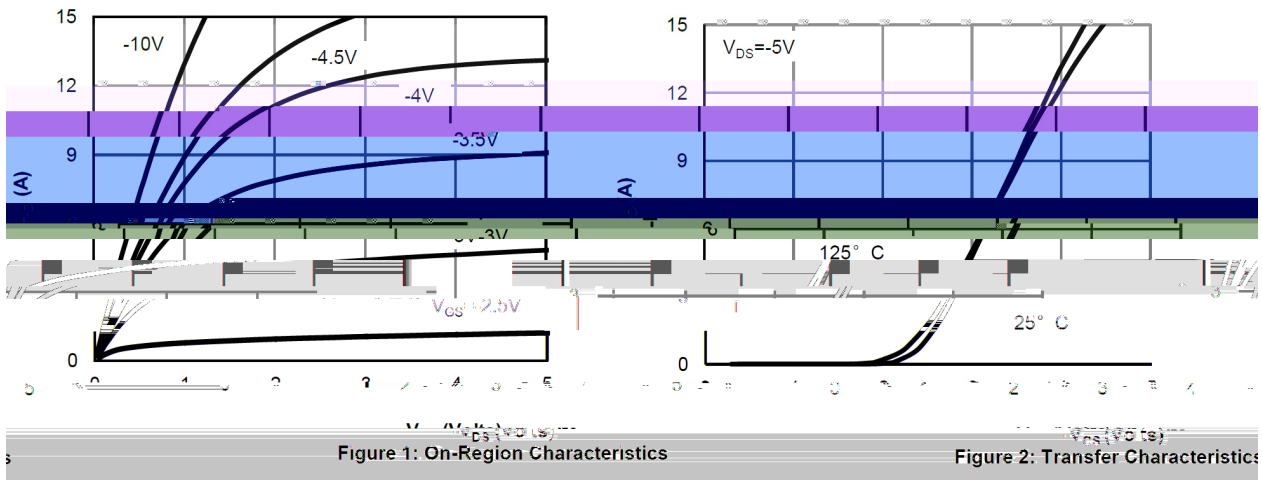


DATA SHEET

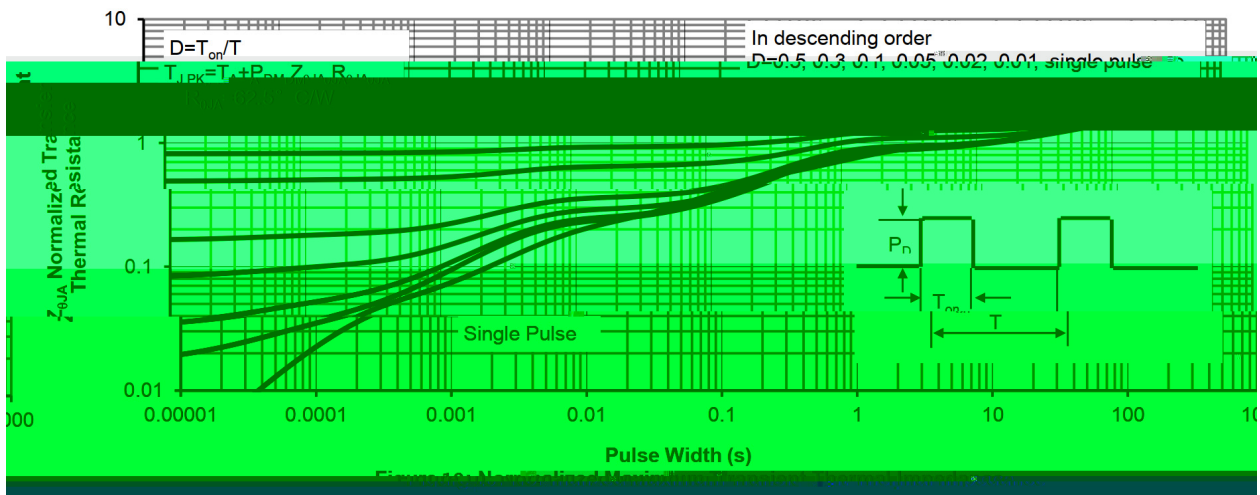
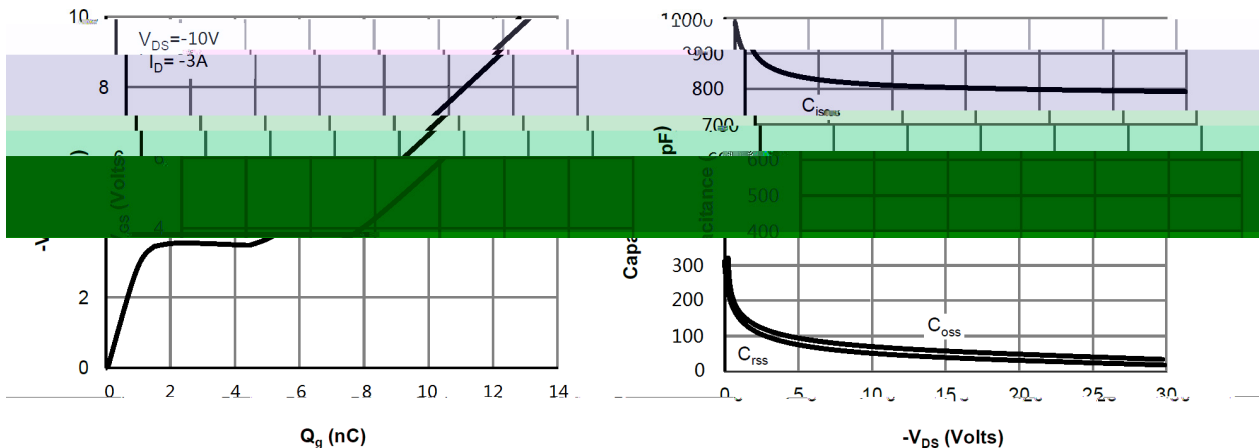
| Parameter | | Symbol | Rating | Unit |
|---|--------------|----------------|----------|------|
| Drain–Source Voltage | | V_{DSS} | -60 | V |
| Gate–Body Leakage Voltage | | V_{GSS} | ± 20 | V |
| Drain Current – Continuous | | I_D | -3.5 | A |
| Pulsed Drain Current | | I_{DM} | -16 | A |
| Power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



/ Electrical Characteristic Curve

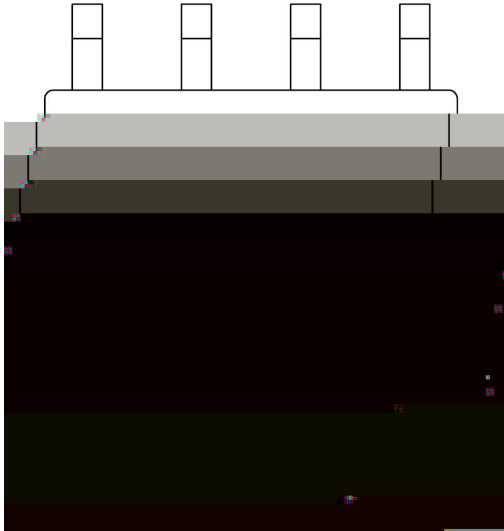


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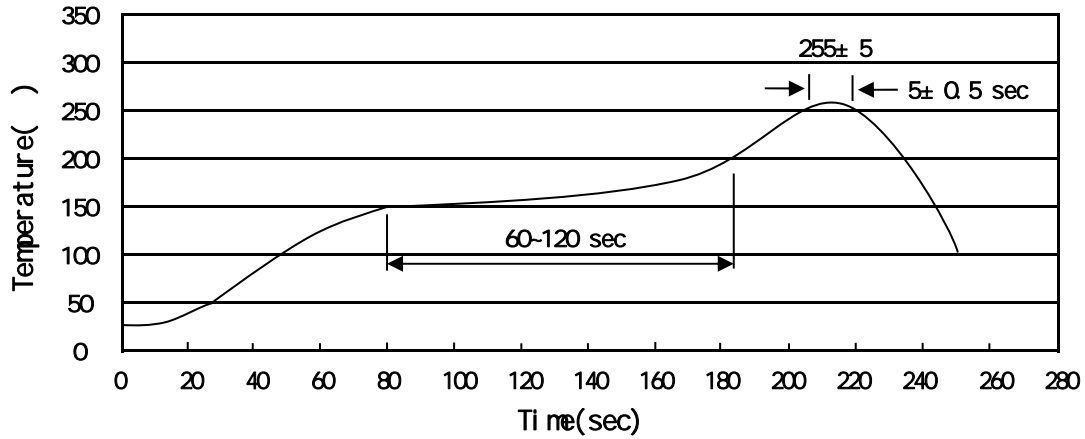
DATA SHEET

/ 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