

/ Descriptions

SOT-23 P

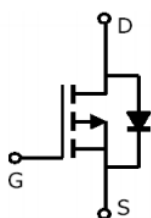
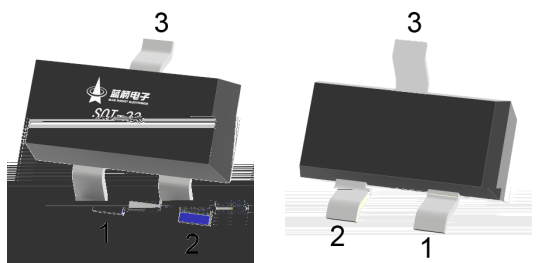
- CHANNEL MOSFET in a SOT-23 Plastic Package.

/ Features

Ultra Low on-resistance. fast switching.Low on voltage,HF Product.

/ Applications

PWM application & Load switch

/ Equivalent Circuit**/ Pinning**

PIN1 G

PIN 2 S

PIN 3 D

/ Marking

See Marking Instructions.

BRCS1C5P06MA

Rev.B Oct.-2022



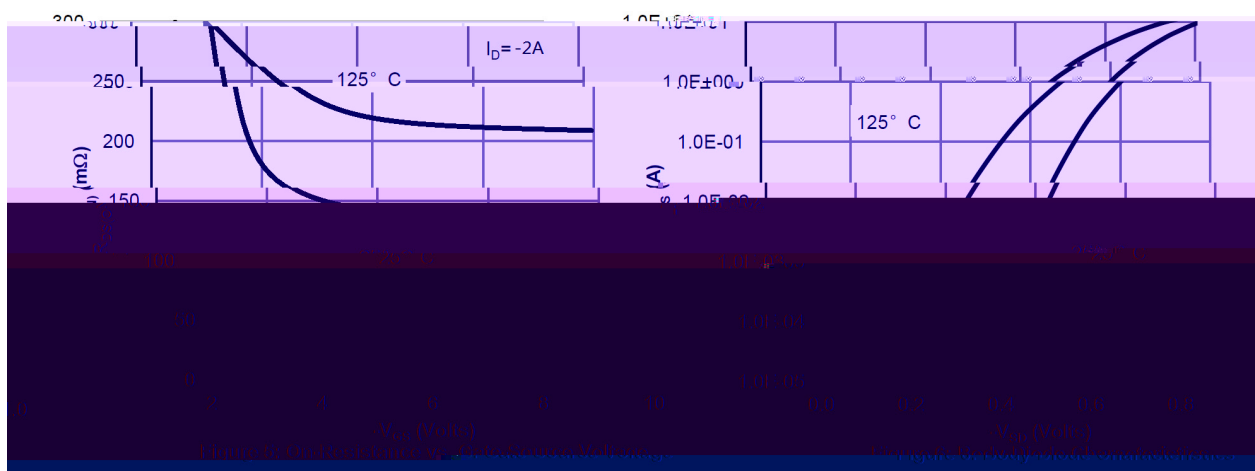
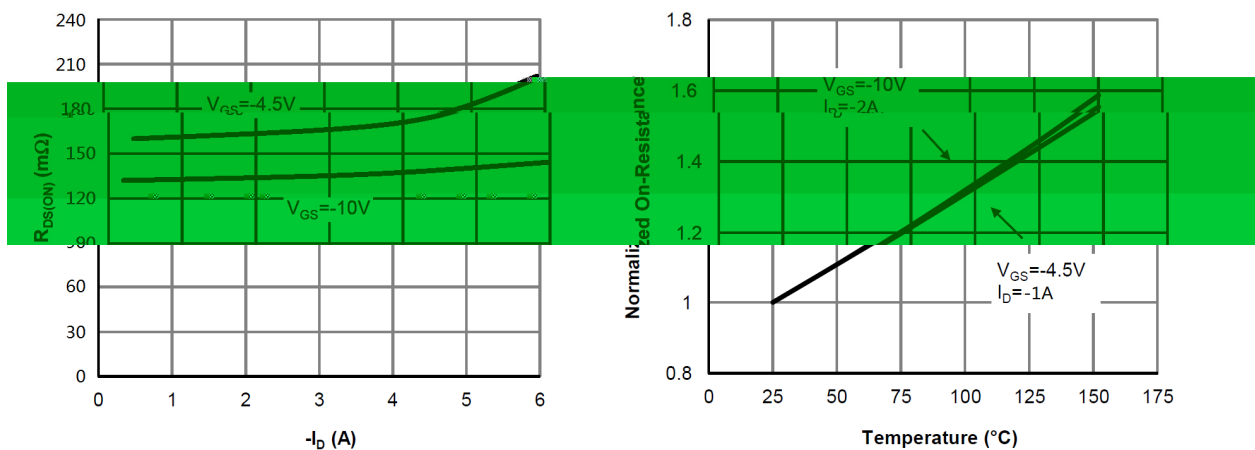
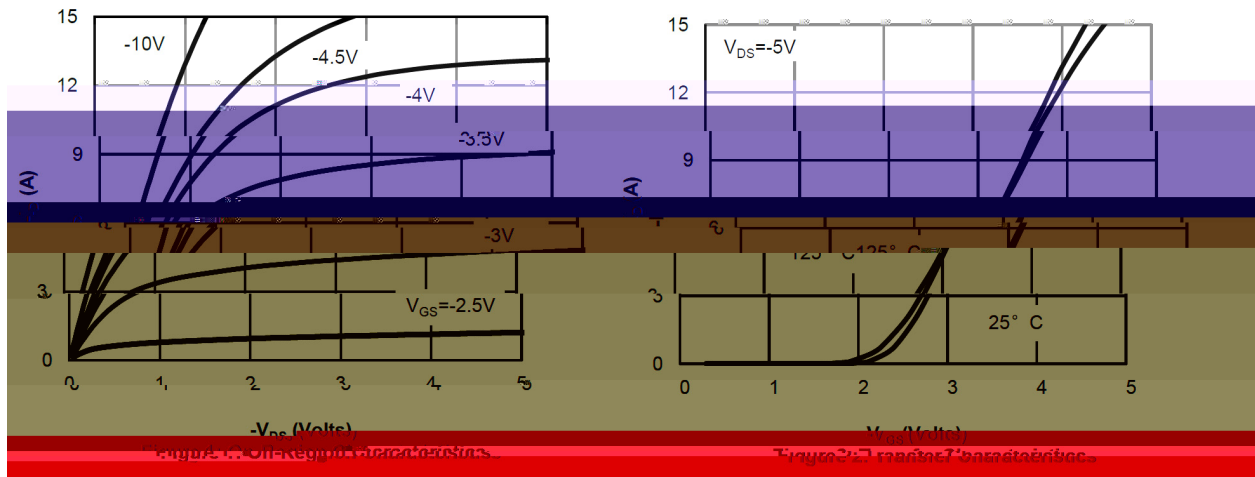
DATA SHEET

Parameter	Symbol	Rating	Unit
Drain–Source Voltage	V_{DS}	-60	V
Gate–Body Leakage Voltage	V_{GS}	± 20	V
Drain Current – Continuous	I_D	-2.3	A
Pulsed Drain Current	I_{DM}	-9	A

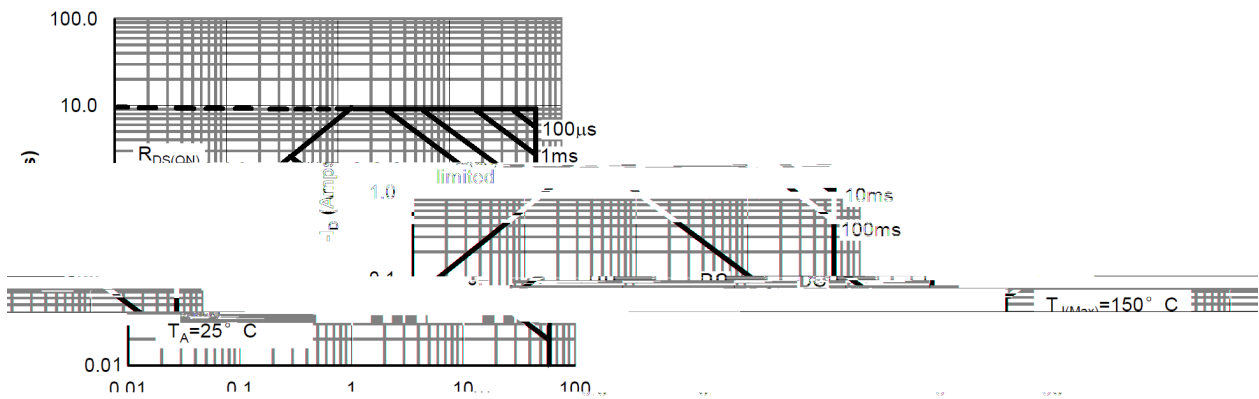
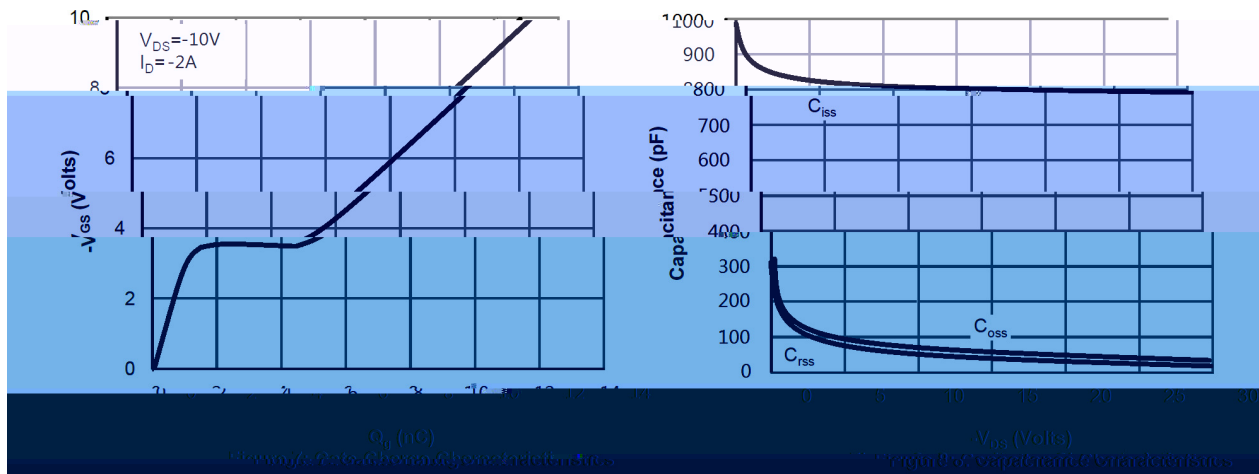
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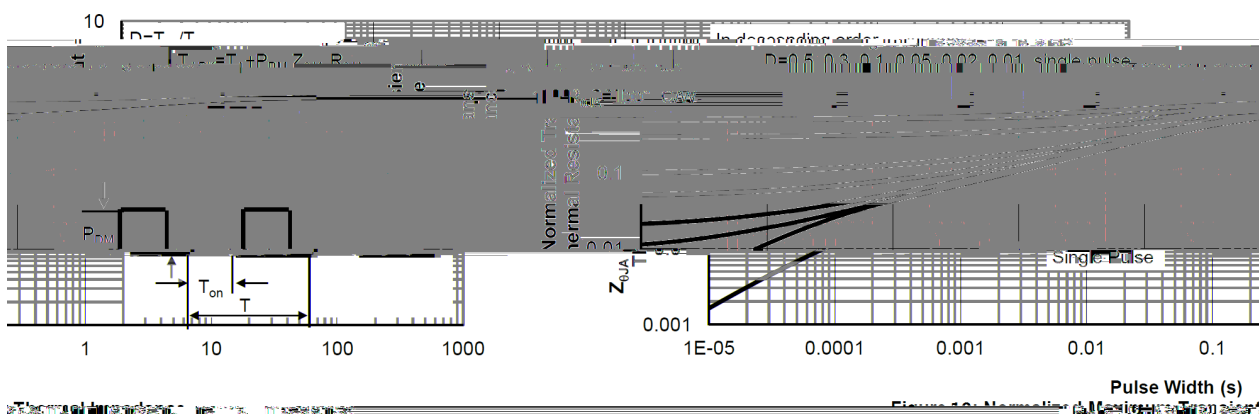
/ Electrical Characteristic Curve



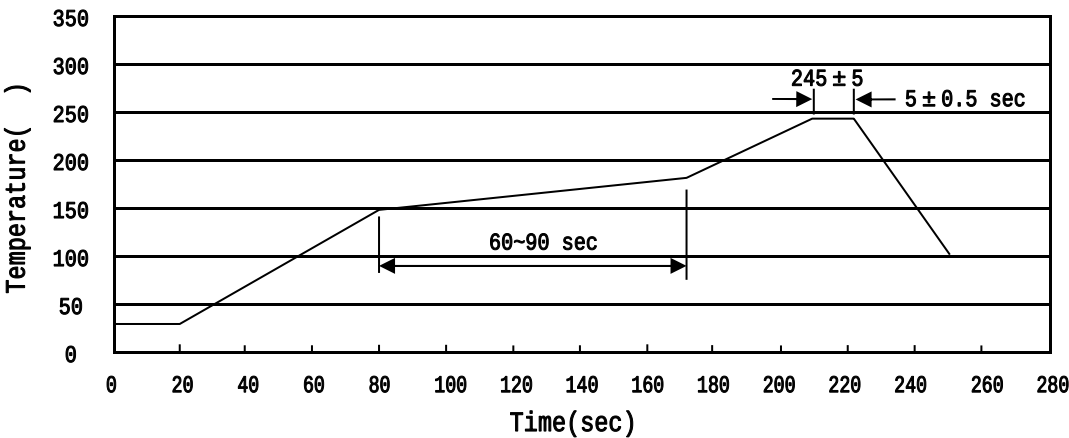
/ Electrical Characteristic Curve



$-V_{DS}$ (Volts)
 V_{GS} > or equal to -4.5V
 Figure 9: Maximum Forward Biased
 Safe Operating Area



() / Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

- 1

150 180

60 90sec;

1.Preheating:150~180 °C , Time:60~90sec.
- 2

245 5

5 0.5sec;

2.Peak Temp.:245 ± 5 °C , Duration:5 ± 0.5sec.
- 3

2 10

/sec.

3. Cooling Speed: 2~10 °C /sec.

/ Resistance to Soldering Heat Test Conditions

260 ± 5 °C 10 ± 1 sec. Temp.:260 ± 5 °C 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
SOT-23	3,000	10	30,000	6	180,000	7 × 8	180×120×180	390×385×205

/ Notices