

BRCS1C0P06MC

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 Ω (Type.83m Ω)

$R_{DS(on)2} @ -4.5V$ 0 130m Ω (Type.100m Ω)

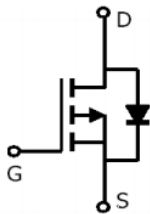
—)í D }ož HF Product.

Đ ÷ / Applications

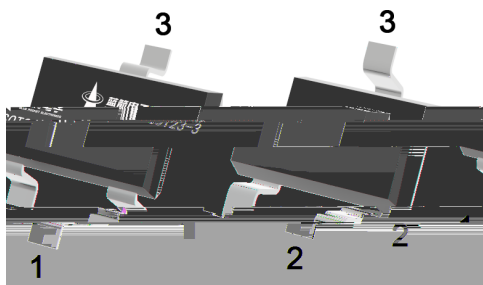
6 = 3 • Ć ú • ¼ož

PWM application & Load switch.

Ã W] Ô · / Equivalent Circuit



• Ô - æ / Pinning



PIN1 y G

PIN 2 y S

PIN 3 y D

, M V / Marking

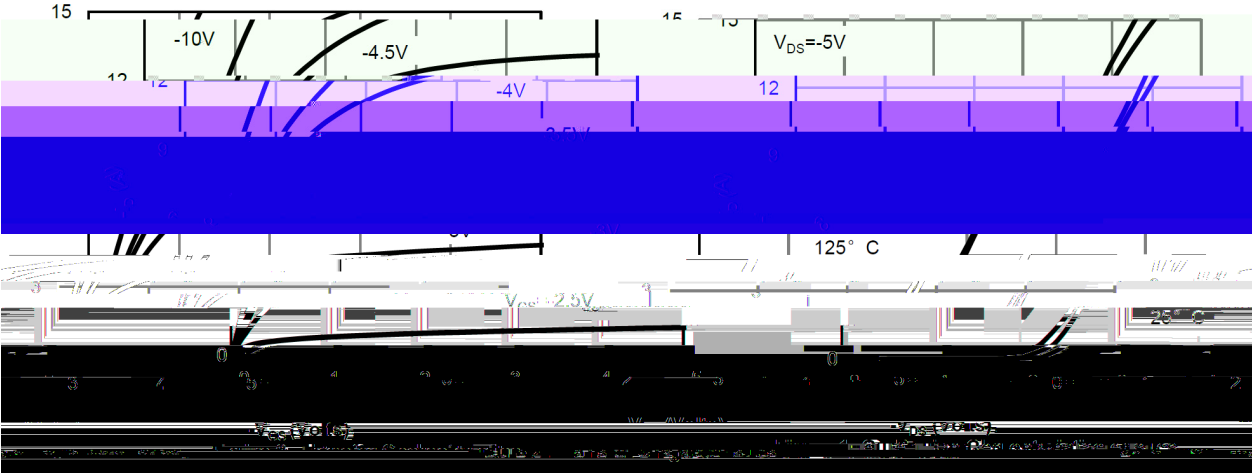
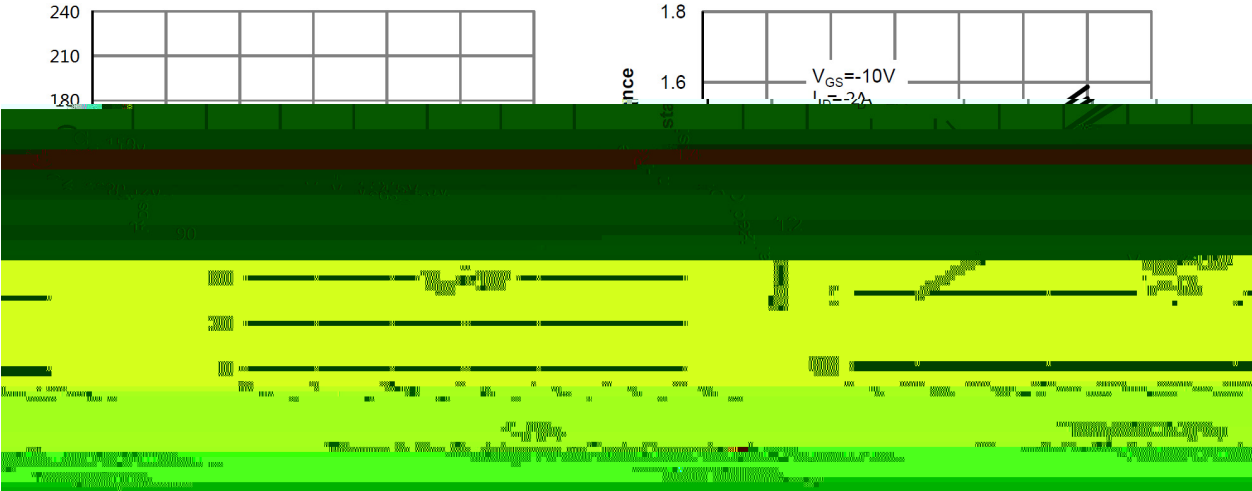
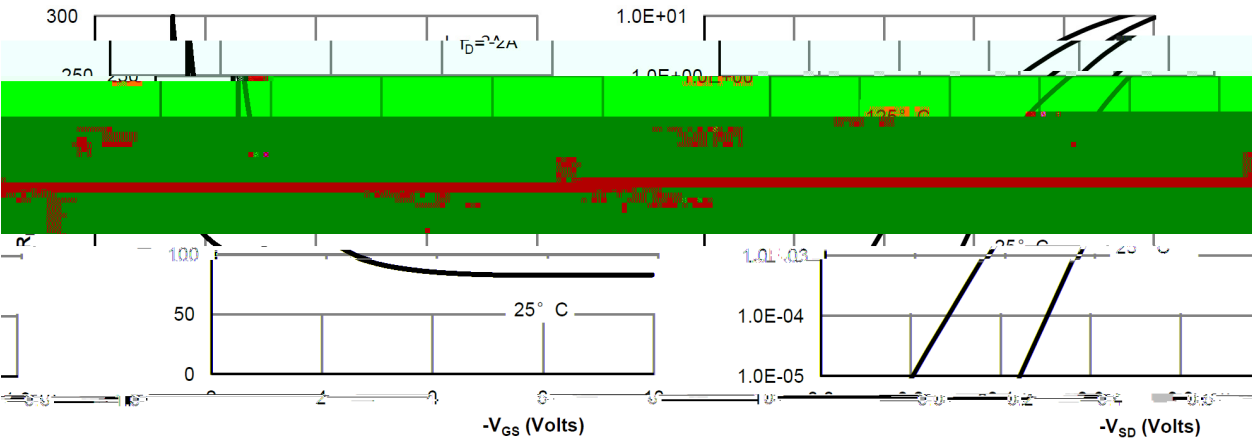
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See Marking Instructions.

@ f Parameter	... Z Symbol	f > Rating	% y Unit
Drain–Source Voltage	V _{DSS}	-60	V
Gate–Body Leakage	V _{GSS}	±20	V
Drain Current	I _D	-3	A
Pulse Drain Current	I _{DM}	-16	A
Power Dissipation	P _D	1.4	W
Operating and Storage Temperature Range	T _{RG}	-55 150	
Maximum Junction-to-Ambient		89	/W

@ f	Z	y : I	Â 4 > Min	Á ° > Typ	Â Ý > Max	% y Unit
		I _D = -50 A	-60	-65		V
Gate Threshold Voltage	V _{GS(th)}	V _{DS} =V _{GS} I _D =-250 A	-1	-1.6	-2.5	V
Static Drain–Source On–Resistance	R _{DS(on)}	V _{GS} =-10V I _D =-2A		83	100	m

Electrical Characteristic Curve

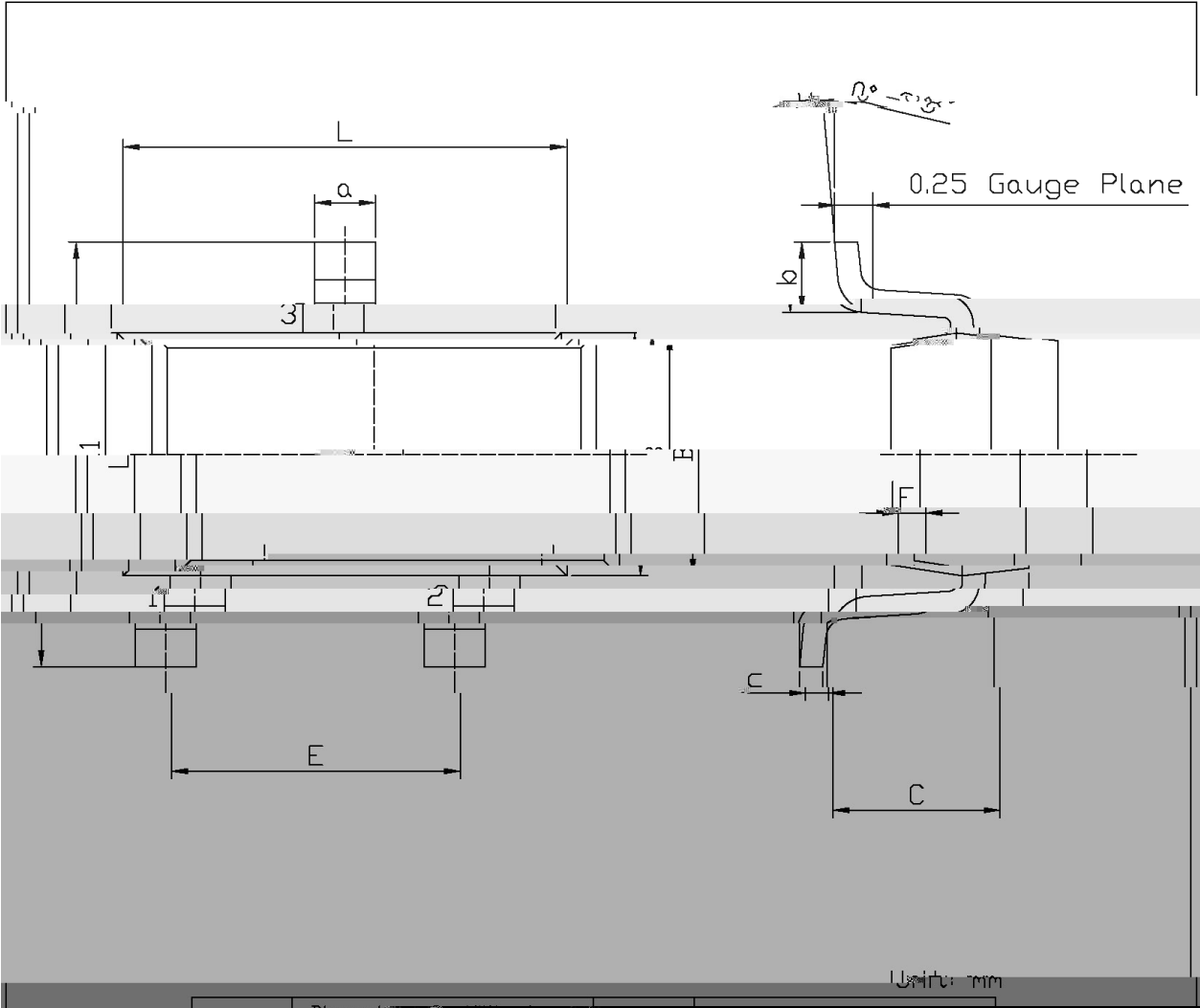


eristics Figure 5: On-Resistance vs. Gate-Source Voltage

Figure 6: Body-Diode Character

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Ø □ =) ☎ / Package Dimensions



Dimension	Value
L	10.0
a	2.0
3	0.5
1	0.5
2	0.5
E	1.0
C	0.5
F	0.5

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

a ¢ y

- 1o• Ä ½ “† 150 ½180 - k ž • 60 ½90sec;
- 2o• Q > “† 245 r5 - k ž • 4 Ò 5 r0.5sec;
- 3o•D N ò i Ò 0 ,† 2 ½10 - /sec.

Note:

- 1.Preheating:150~180 - , Time:60~90sec.
- 2.Peak Temp.:245 r5 - , Duration:5 r0.5sec.
- 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

G P á / Packaging SPEC.

2 & x / REEL

Package Type 7>û ~ E	Units ;>û H					Dimension ;>û p . (unit Åmm³)		
	Units/Reel / --	Reels/Inner Box -- /-	Units/Inner Box /-	Inner Boxes/Outer Box - /1ç	Units/Outer Box /1ç	Reel	Inner Box	Outer Boxç ÂD4€ 1Sv5v7T L „