

# BRCS1C0P06MF

Rev.B Aug.-2024

## / Descriptions

SOT23-6 P

P- CHANNEL MOSFET in a SOT23 -6 Plastic Package.

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

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

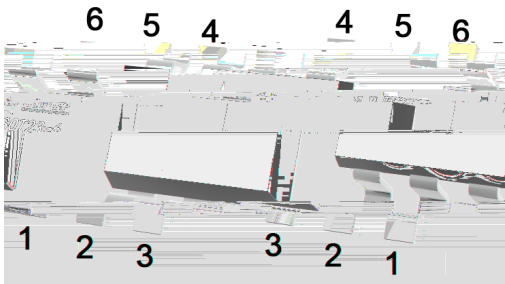
$R_{DS(on)2}@-4.5V$  130m (Type.100m )

HF Product.

PWM

PWM application & Load switch.

## / Equivalent Circuit



PIN1 D PIN 2 D PIN 3 G PIN 4 S PIN 5 D PIN 6 D

## / Marking

See Marking Instructions.

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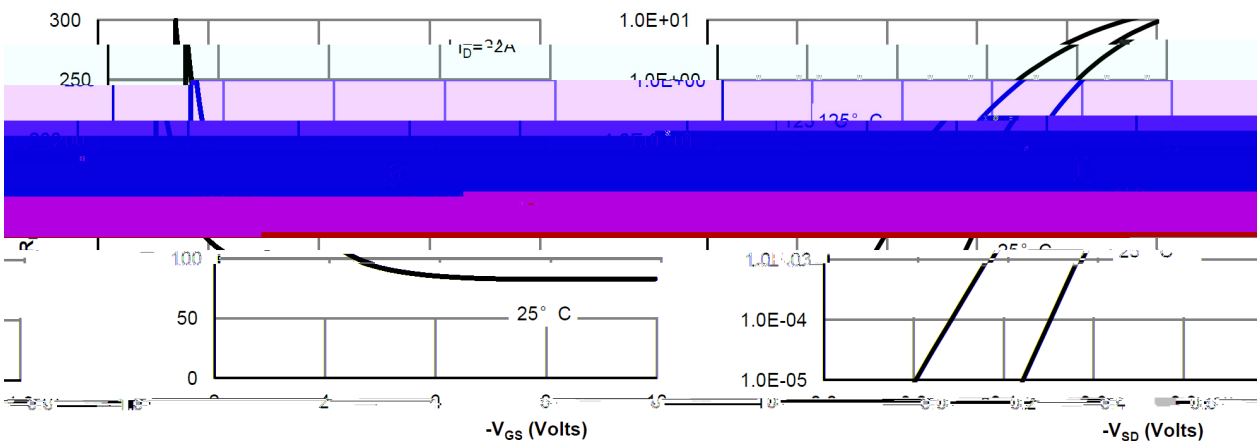
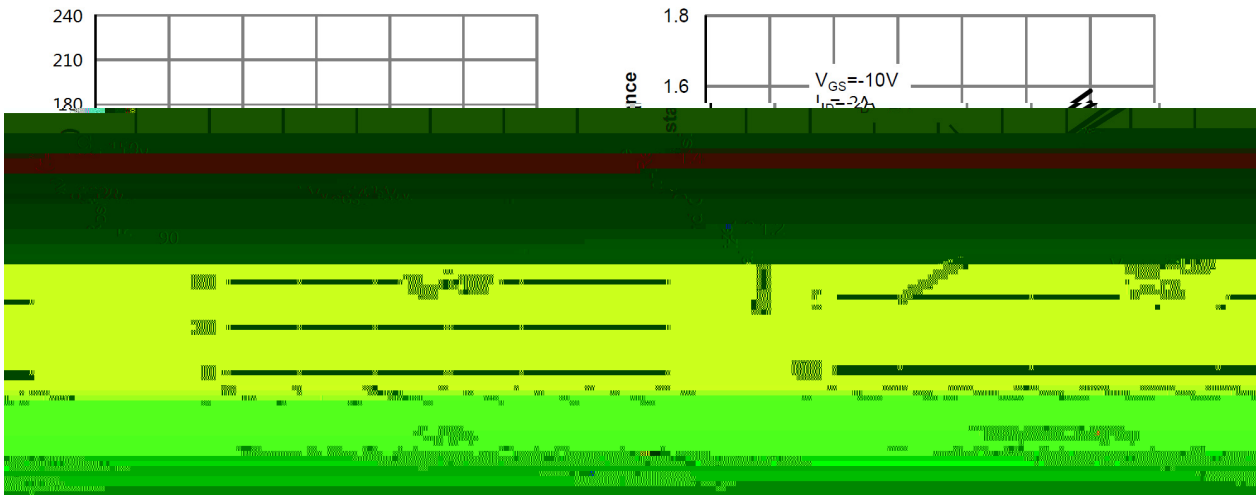
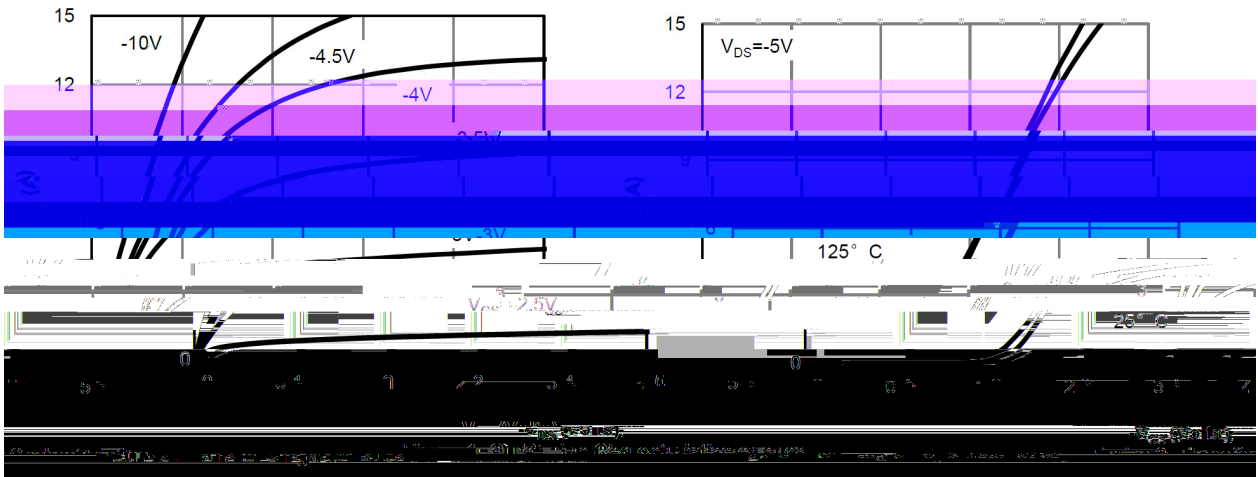
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## DATA SHEET

Parameter	Symbol	Rating	Unit
Drain–Source Voltage	$V_{DSS}$	-60	V
Gate–Body Leakage Voltage	$V_{GSS}$	$\pm 20$	V
Drain Current – Continuous	$I_D$	-3	A
Pulsed Drain Current	$I_{DM}$	-16	A
Power Dissipation	$P_D$	1.4	W

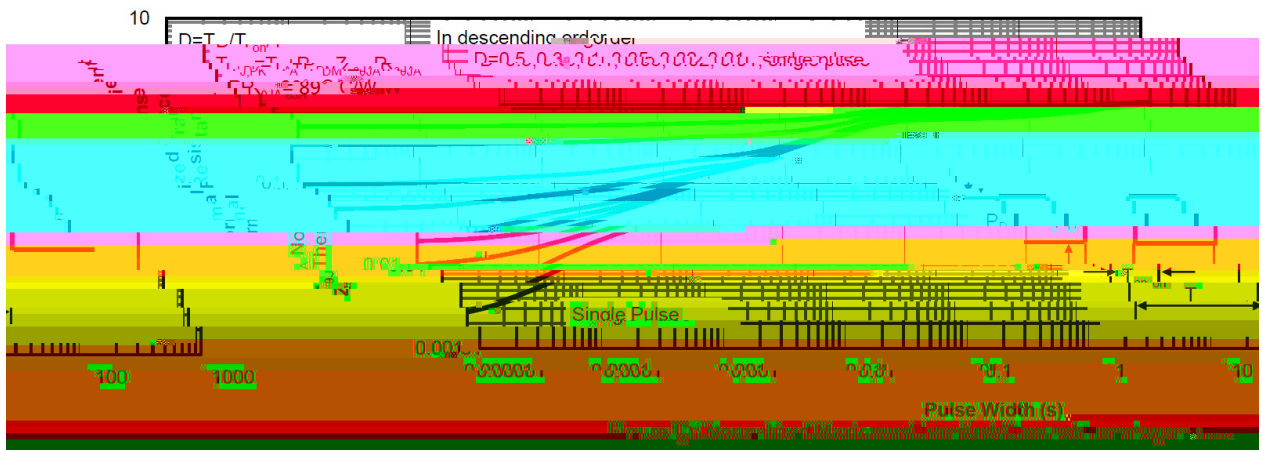
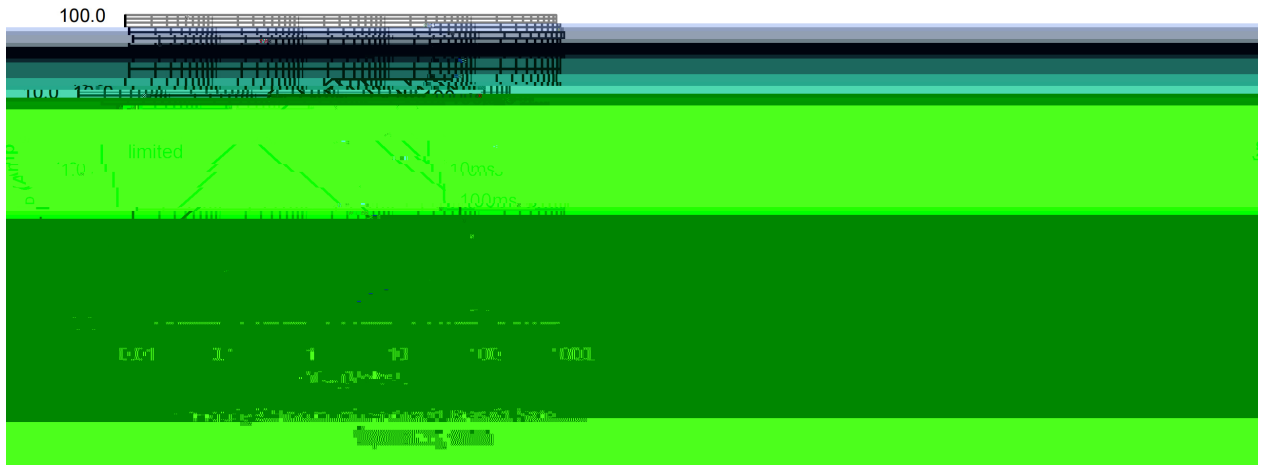
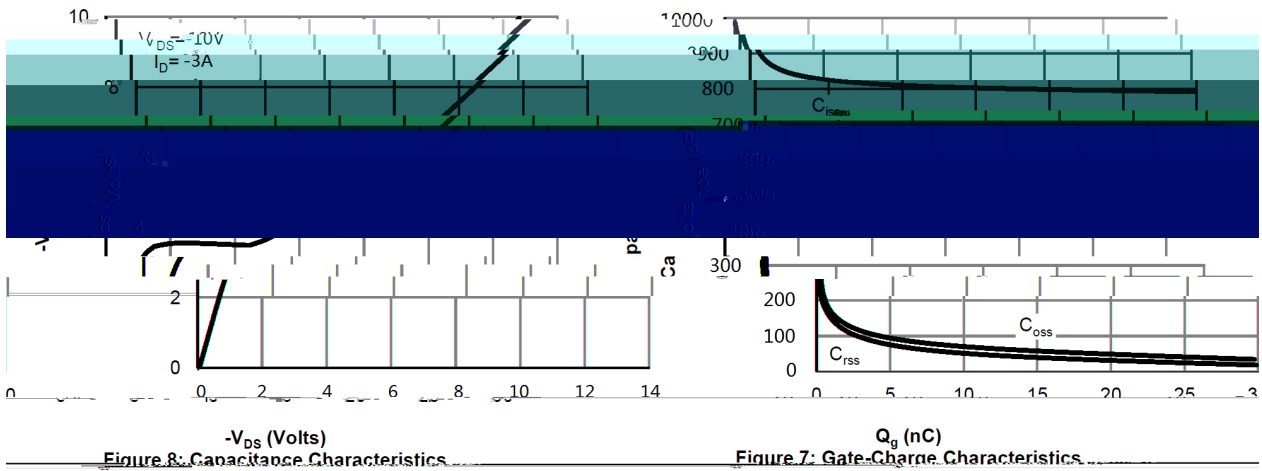
**/ Electrical Characteristic Curve**



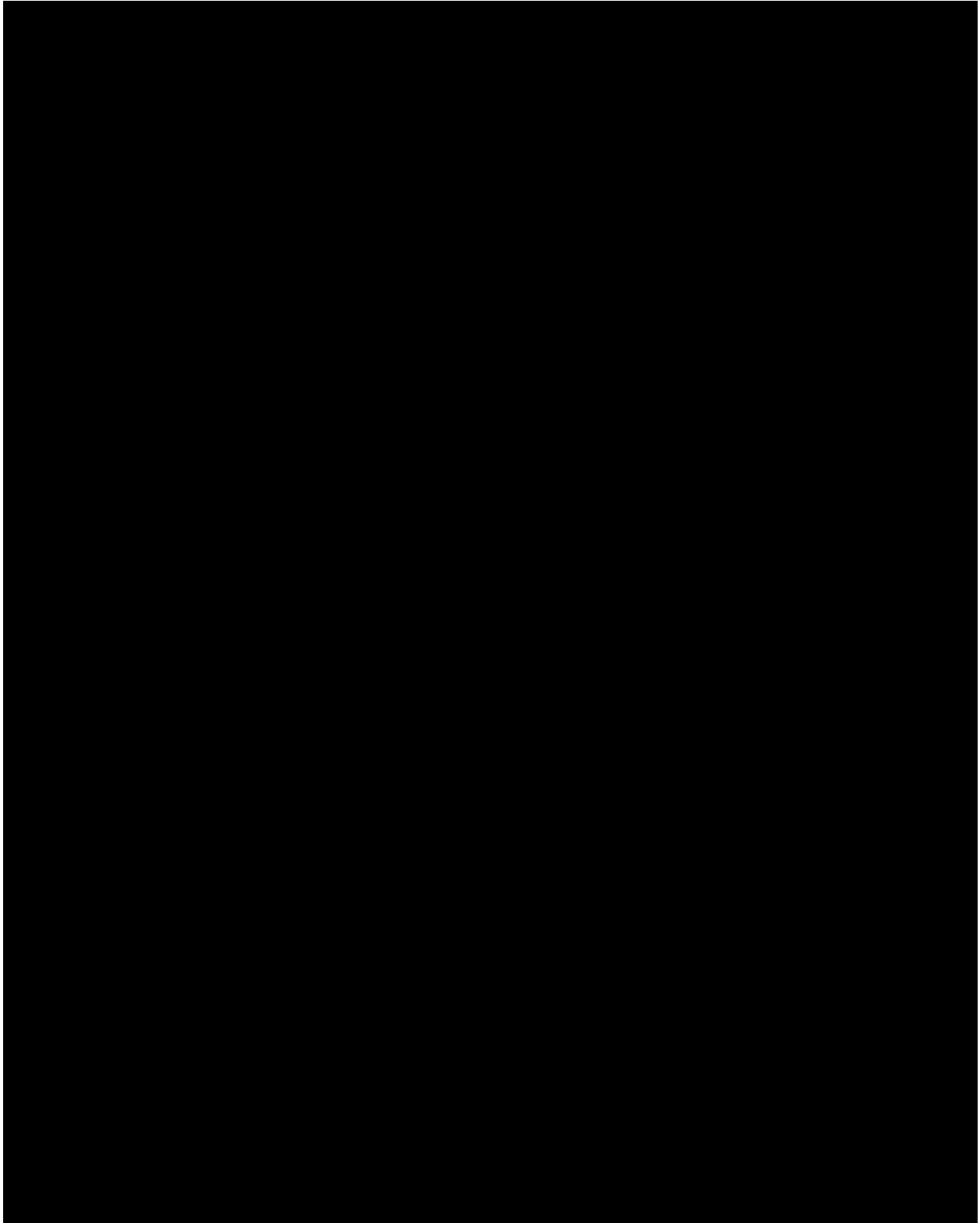
**Figure 5: On-Resistance vs. Gate-Source Voltage**

**Figure 6: Body-Diode Characteristics**

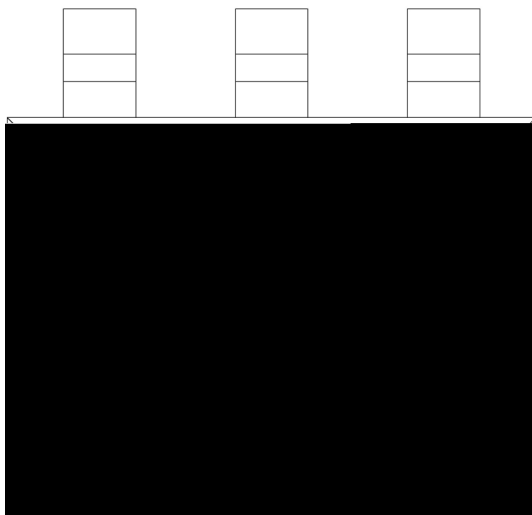
**/ Electrical Characteristic Curve**



/ Package Dimensions



**/ Marking Instructions**



C1:

H

\*\*\*\*:

Note:

C1: Product Type Code

H: Company Code

\*\*\*\* Lot No. Code, code change with Lot No.

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DATA SHEET

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


Note:

- |   |         |           |                                         |
|---|---------|-----------|-----------------------------------------|
| 1 | 150 180 | 60 90sec; | 1.Preheating:150~180 , Time:60~90sec.   |
| 2 | 245±5   | 5±0.5sec; | 2.Peak Temp.:245±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
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## / Packaging SPEC.

/ REEL

Package Type	Units	Dimension	(unit mm <sup>3</sup> )
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