

# BRCS2303MA

Rev.A Aug.-2023

## / Descriptions

SOT-23 P

- CHANNEL MOSFET in a SOT-23 Plastic Package.

## / Features

$V_{DS}=-30V$   $I_D=-3.2A$

$R_{DS(ON)}@-10V$  90m (Typ.54m )

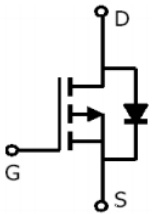
$R_{DS(ON)}@-4.5V$  110m (Typ.63m )

HF Product.

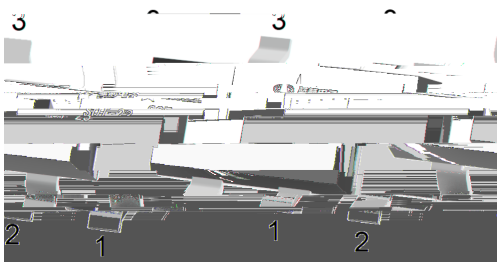
## / Applications

Notebook,Load Switch,Battery Protection,Hand-held Instruments.

## / Equivalent Circuit



## / Pinning



PIN1 G

PIN 2 S

PIN 3 D

## / Marking

See Marking Instructions.

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DATA SHEET

Parameter	Symbol	Rating	Unit
Drain–Source Voltage	$V_{DSS}$	-30	V
Gate–Body Leakage Voltage	$V_{GSS}$	$\pm 12$	V
Drain Current – Continuous	$I_D$	-3.2	A
Pulsed Drain Current	$I_{DM}$	-13.2	A
Power Dissipation	$P_D$	1.5	W
Operating and Storage Temperature Range	$T_J, T_{STG}$	-55 150	
Maximum Junction-to-Ambient $t = 10s$	R		

**/ Electrical Characteristic Curve**

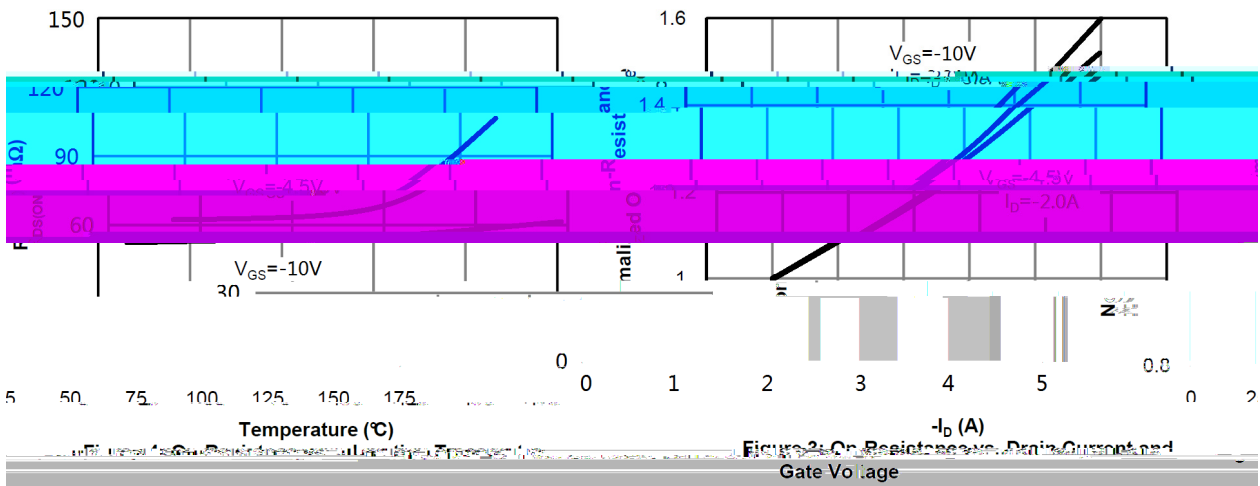
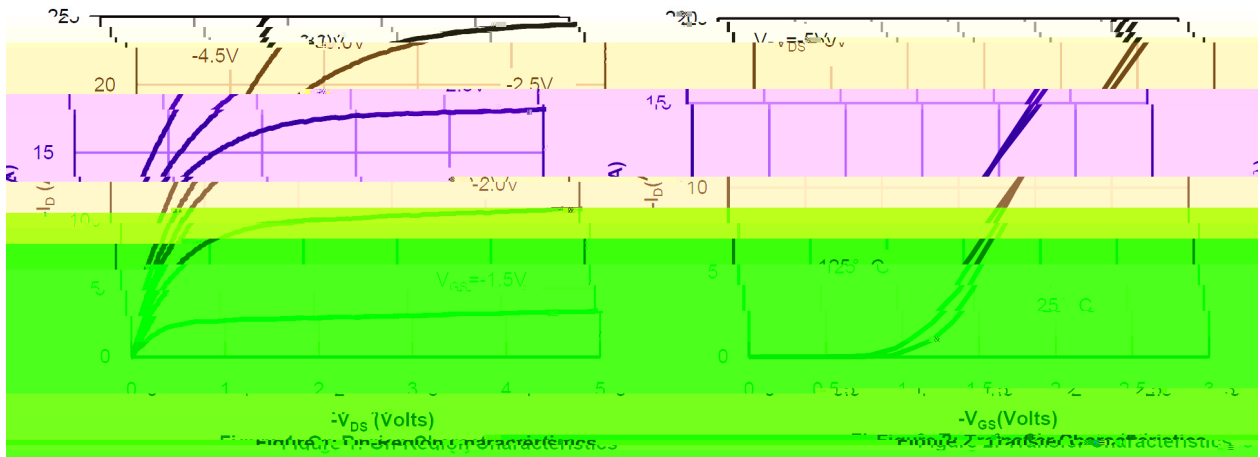


Figure 2: On-Resistance vs. Drain Current and Gate Voltage

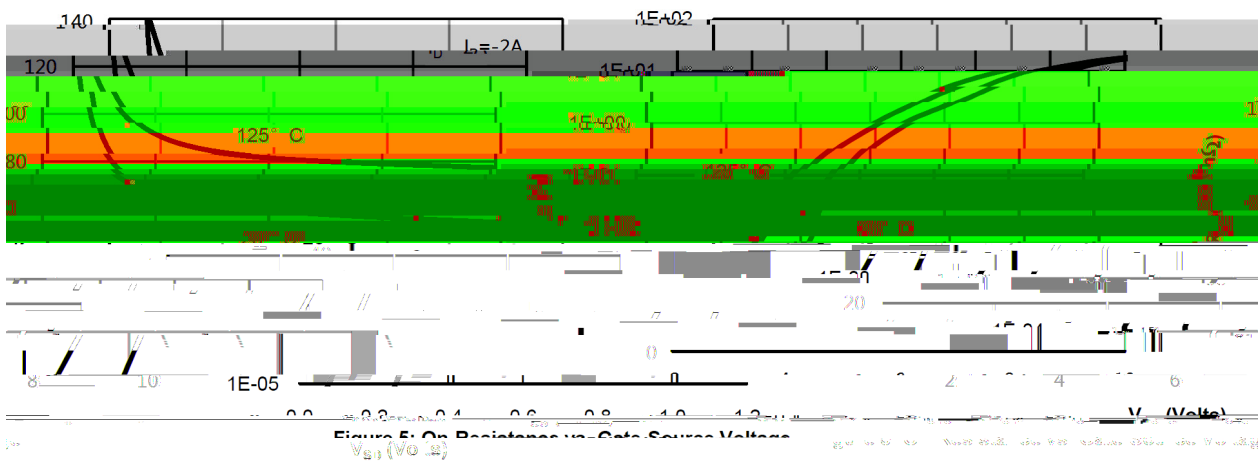
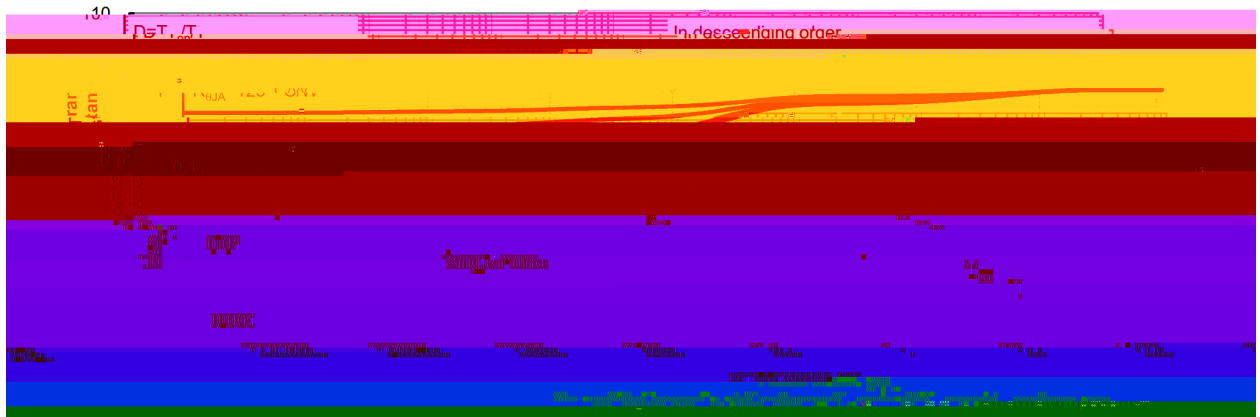
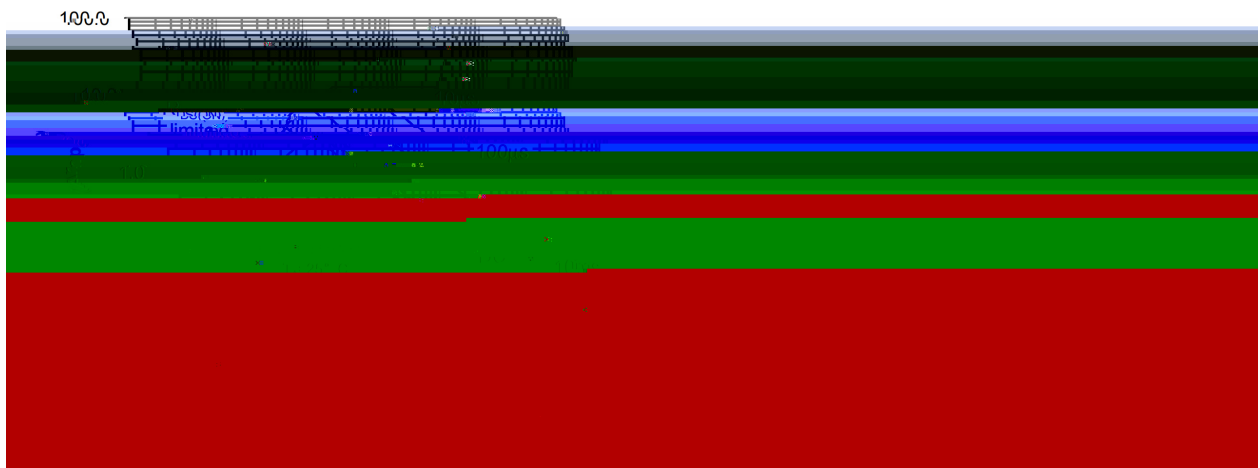
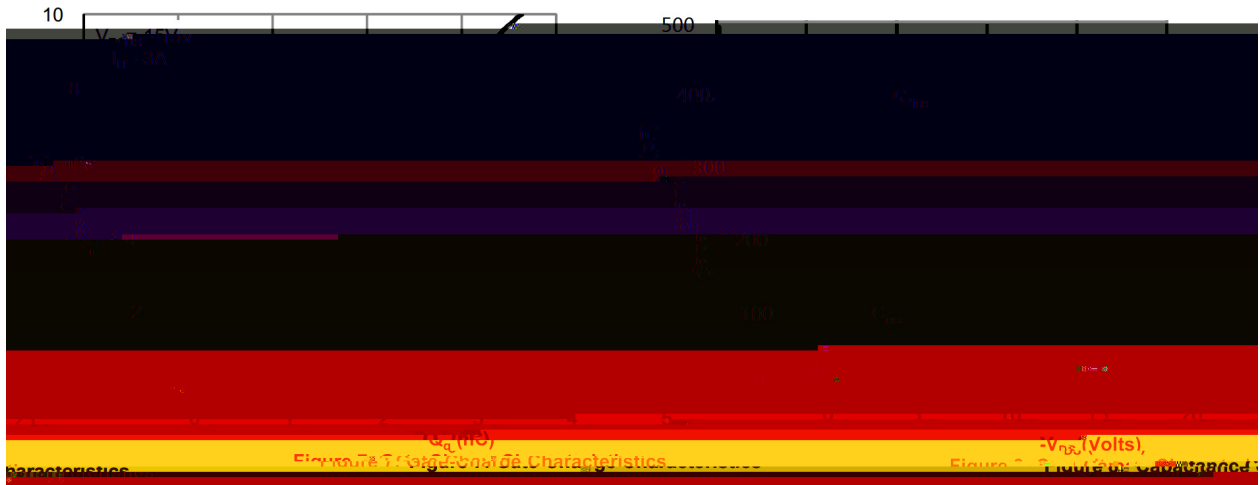


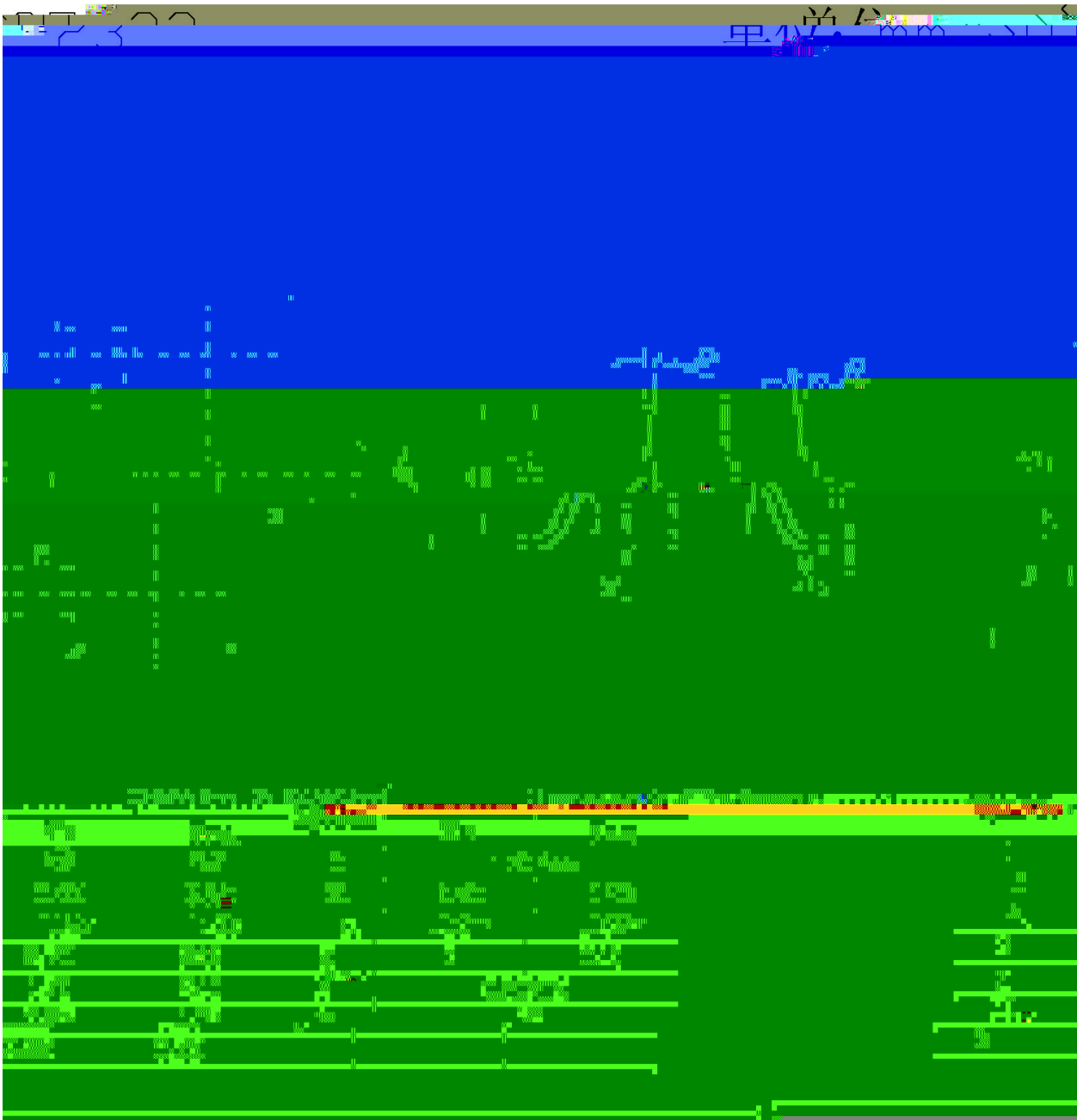
Figure 5: On-Resistance vs. Gate-Source Voltage

Figure 6: Body-Diode Characteristics

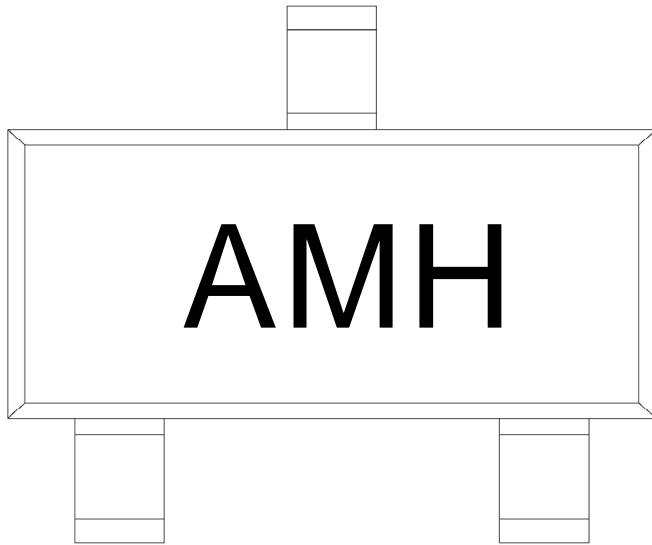
**/ Electrical Characteristic Curve**



**/ Package Dimensions**



**/ Marking Instructions**



H:  
AM

Note:  
H      Company Code  
AM:    Product Type

**( ) / 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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