

# BRCS200P012MF

Rev.A Dec.-2023

## / Descriptions

SOT23-6 P MOS

- CHANNEL MOSFET in a SOT23-6 Plastic Package.

## / Features

$V_{DS} (V) = -12V$   $I_D = -8.0A$

$R_{DS(ON)}@-10V$  20m (Type.18m )

$R_{DS(ON)}@-4.5V$  25m (Type.21m )

$R_{DS(ON)}@-2.5V$  30m (Type.27m )

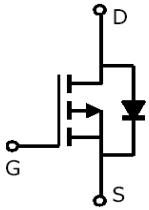
$R_{DS(ON)}@-1.8V$  50m (Type.40m )

HF Product.

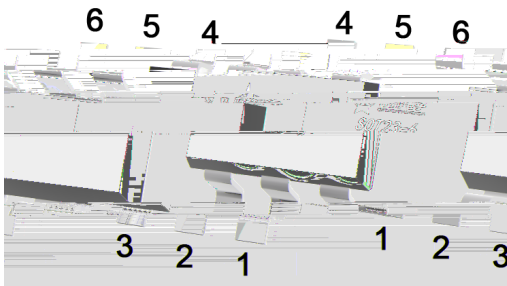
## / Applications

PWM applications, Load switch, Power management.

## / Equivalent Circuit



## / Pinning



PIN1 2 5 6 D

PIN 3 G

PIN 4 S

## / Marking

See Marking Instructions.



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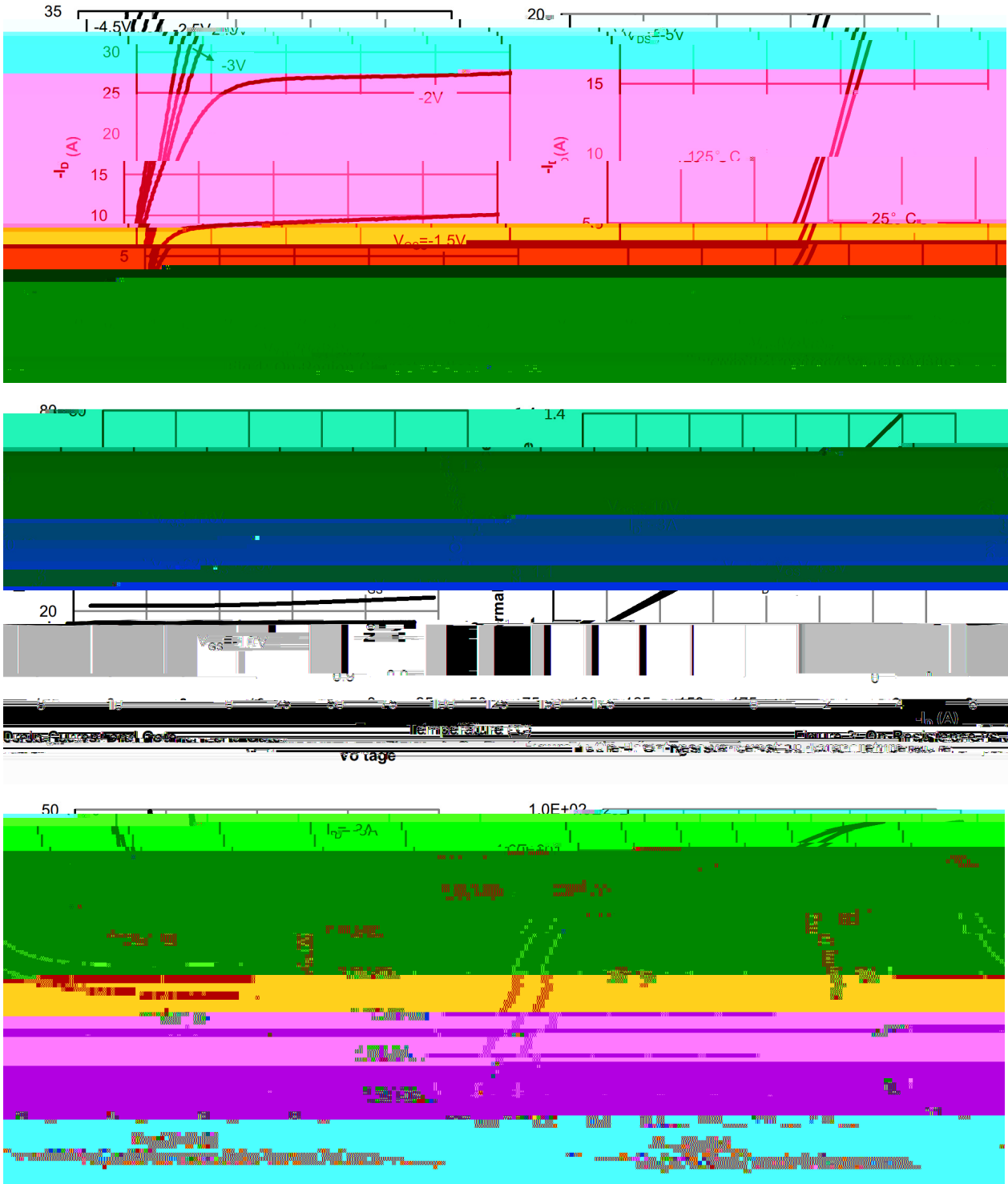


蓝箭电子  
BLUE ROCKET ELECTRONICS

DATA SHEET

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Total Gate Charge	$Q_g$	$V_{GS}=-4.5V$ $V_{DS}=-6V$ $I_D=-8A$				

/ Electrical Characteristic Curve



/ Electrical Characteristic Curve

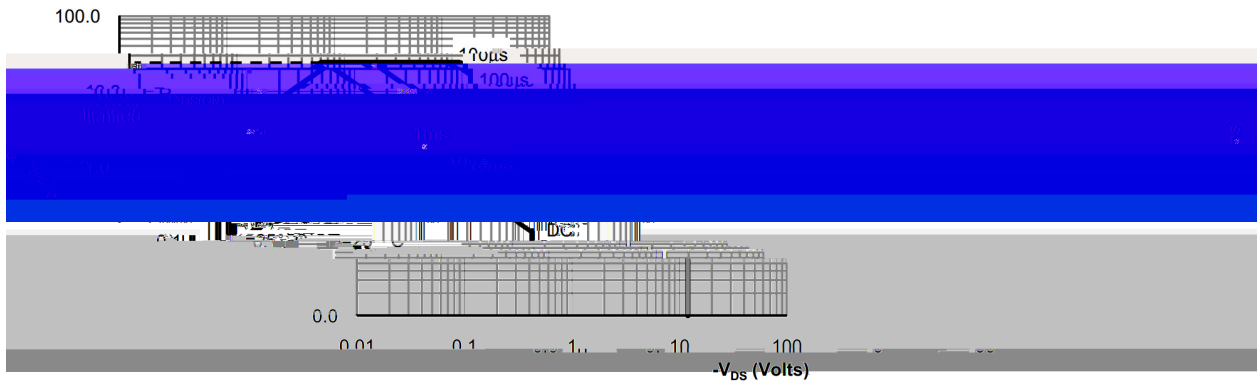
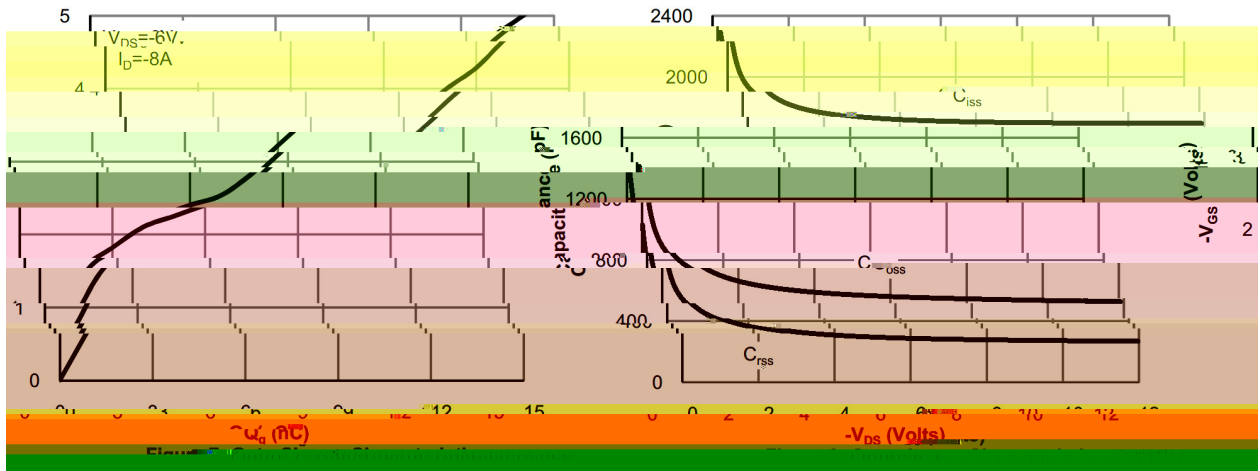
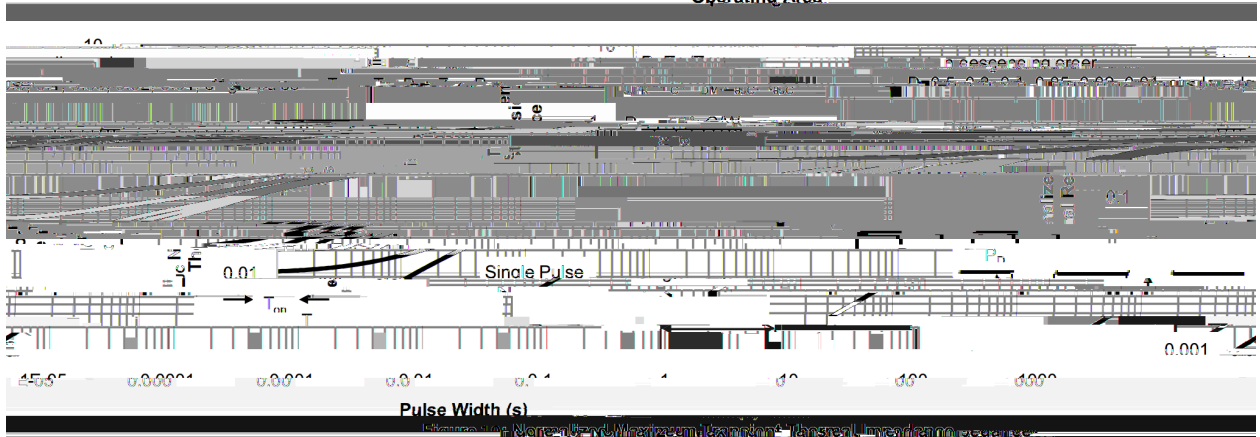
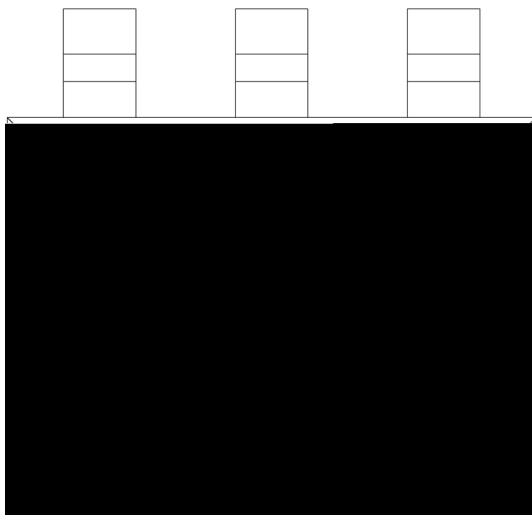


Figure 9: Maximum Forward Biased Safe Operating Area





**/ Marking Instructions**



C3

H

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Note:

C3: Product Type Code

H: Company Code

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

**( ) / 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

**/ Packaging SPEC.**

**/ REEL**

Package Type	Units					Dimension (unit mm <sup>3</sup> )		
	Units/Reel /	Reels/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Reel	Inner Box	Outer Box