

BRCS045N10SHBD

Rev.A Feb.-2023



蓝箭电子
BLUE ROCKET ELECTRONICS

DATA SHEET

TO-263 N-CHANNEL MOSFET

N-CHANNEL MOSFET in a TO-263 Plastic Package.

Характеристики / Features

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Parameter	Symbol	Rating	Unit
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Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Delay Time	$t_{d(on)}$	$V_{GS}=10V$ $V_{DS}=50V$ $R_L=2.5\Omega$ $R_{GEN}=3\Omega$		27		ns
Turn-On Rise Time	t_r			20		
Turn-Off Delay Time	$t_{d(off)}$			50		
Turn-Off Fall Time	t_f			25		

Electrical Characteristic Curve

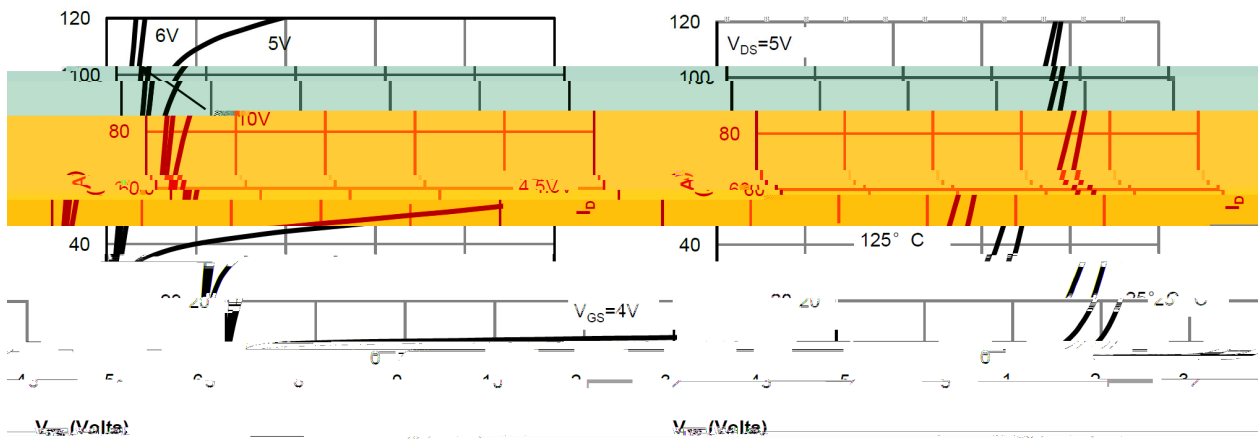


Figure 1: On-Region Characteristics

Figure 2: Transfer Characteristics

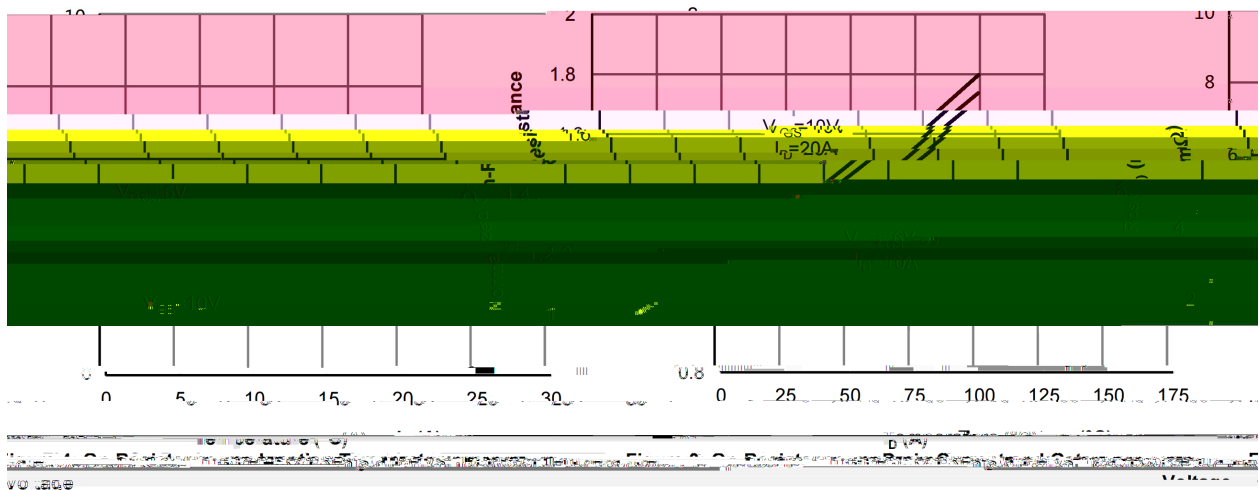
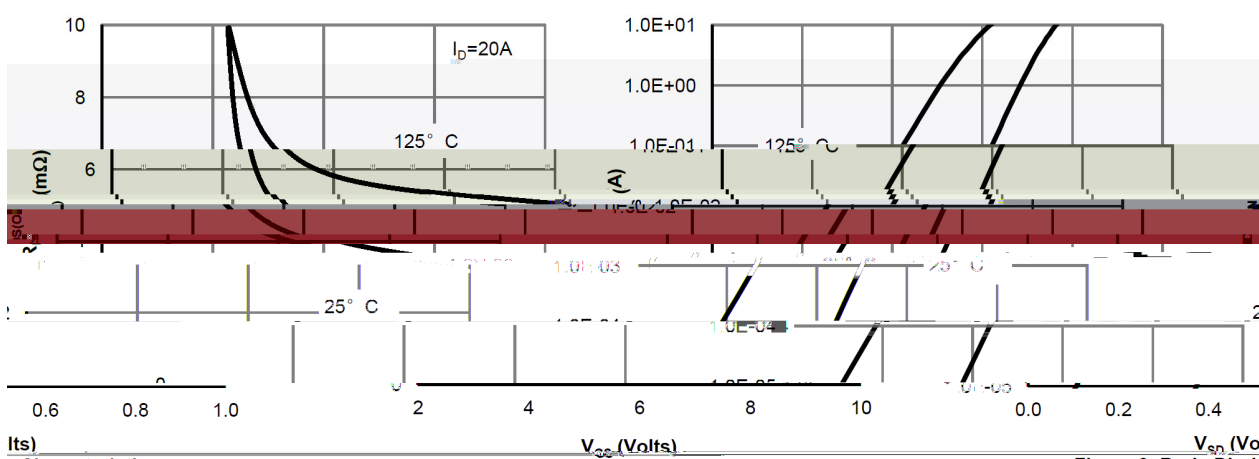
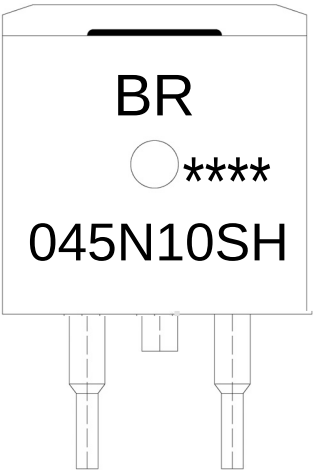


Figure 5: On-Region Characteristics

Figure 6: Transfer Characteristics

Figure 6: Transfer Characteristics

/ Marking Instructions



BR
EU 378Q43VK

Company Code
Product Type
Lot No. Code, code change with Lot No


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

1. 150~180 °C

2. 245 °C

3. 2~10 °C/sec

Note:

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

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

3. Cooling Speed: 2~10 °C /sec.

/ Resistance to Soldering Heat Test Conditions

1. 260 °C

2. 10 °C

Temp.:260±5

Time:10±1 sec

/ Packaging SPEC.

1. 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
TO-263	800	1	800	6	4,800	13 ×24	360×360×50	380×335×366

2. TUBE

Package Type	Units					Dimension (unit mm ³)		
	Units/Tube	Tubes/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Tube	Inner Box	Outer Box