

BRCS060N04YMQ

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Rev.B Mar.-2023

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	40	V
Drain Current	$I_D(T_c=25^{\circ}\text{C})$	60.2	A
Drain Current - Pulsed	I_{DM}	217	A
Gate-Source Voltage	V_{GS}	± 20	V
Single Pulsed Avalanche Energy	E_{AS}	240.1	mJ
Avalanche Current	I_{AS}	24.5	A
Power Dissipation	$P_D(T_c=25^{\circ}\text{C})$	36	W
Operating and Storage Temperature Range	T_J, T_{stg}	-55 to 150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Delay Time	t					

/ Electrical Characteristic Curve

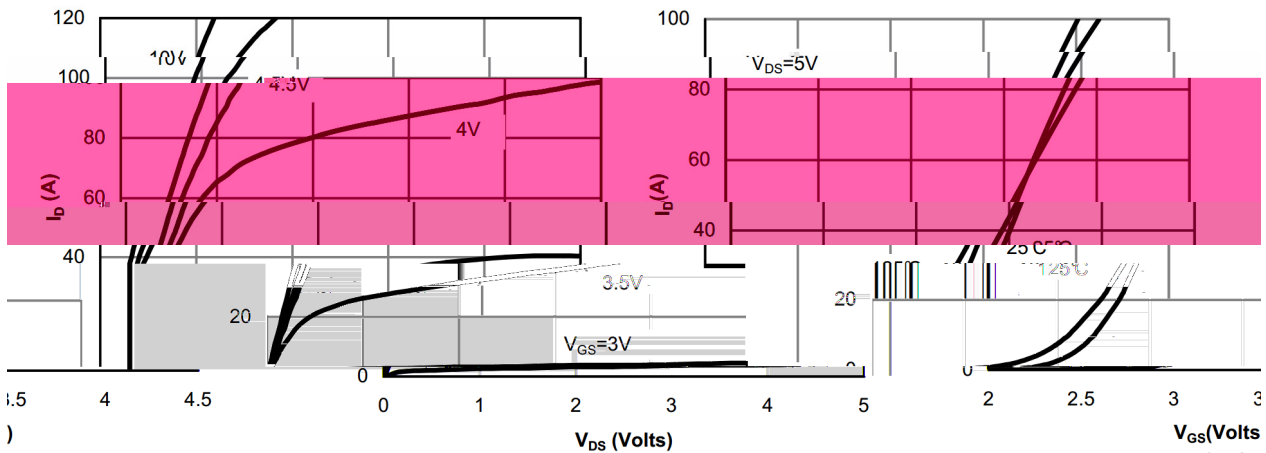


Fig 1: On-Region Characteristics

Figure 2: Transfer Ch

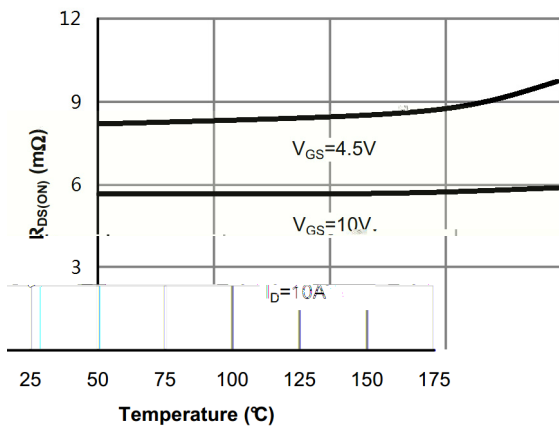


Figure 4: On-Resistance vs. Junction Temperature

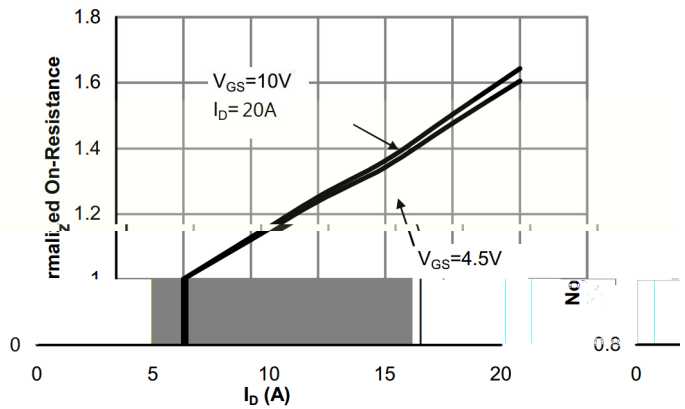


Figure 3: On-Resistance vs. Drain Current and Gate

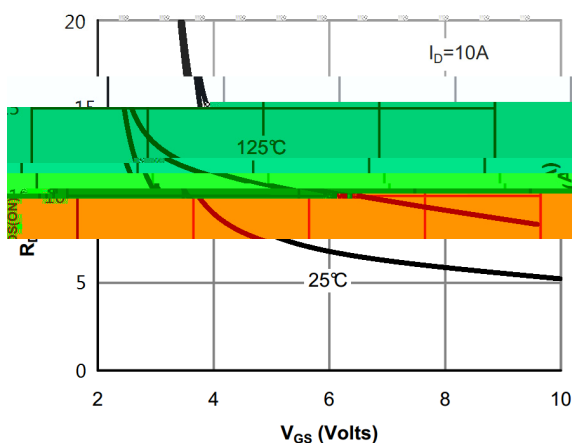


Figure 5: On-Resistance vs. Gate-Source Voltage

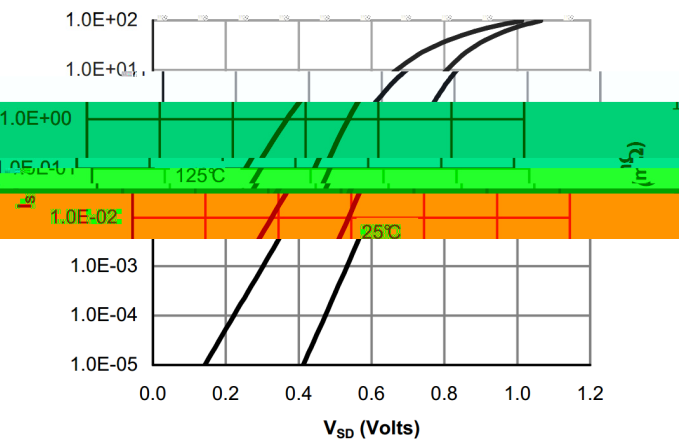


Figure 6: Body-Diode Characteristics

/ Electrical Characteristic Curve

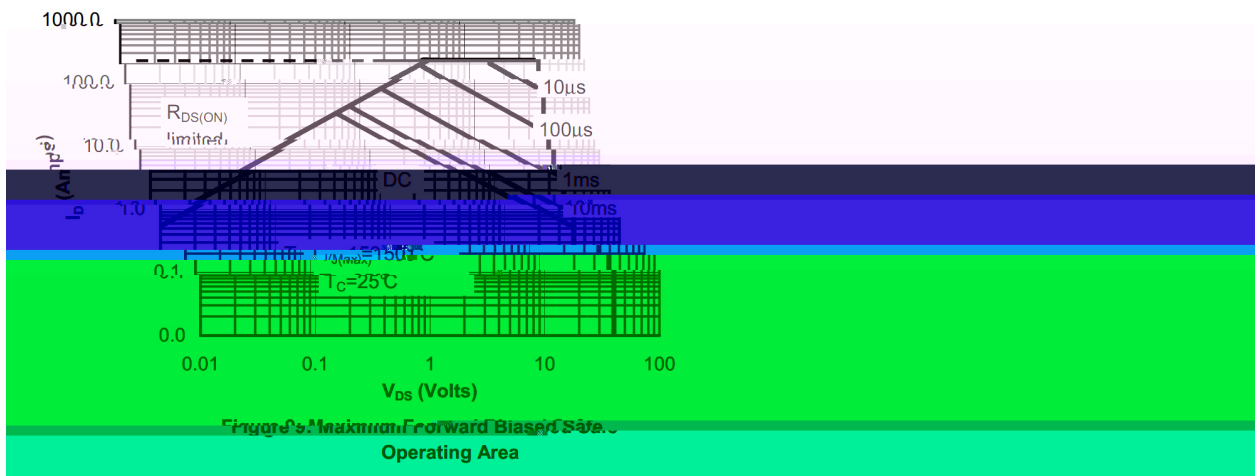
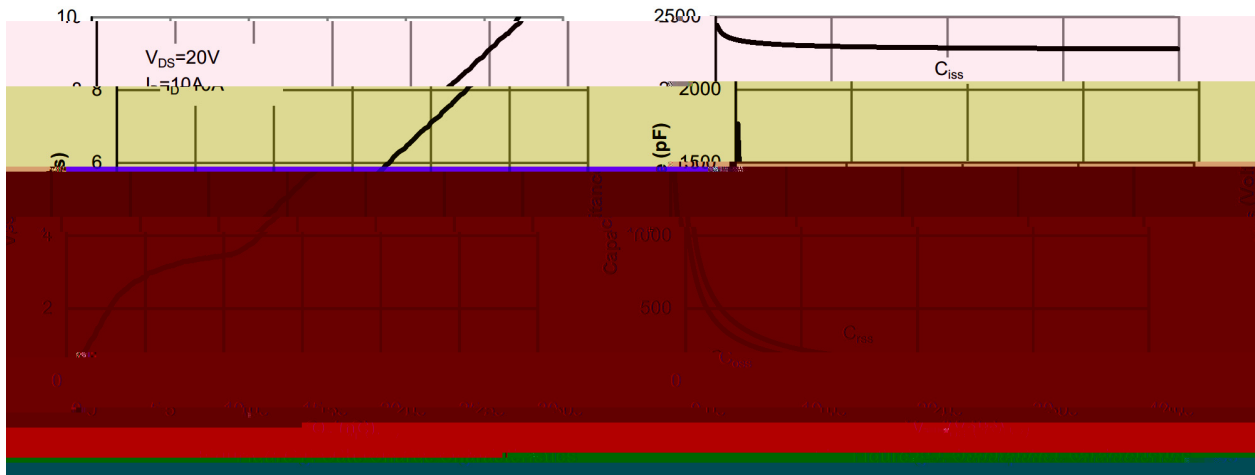
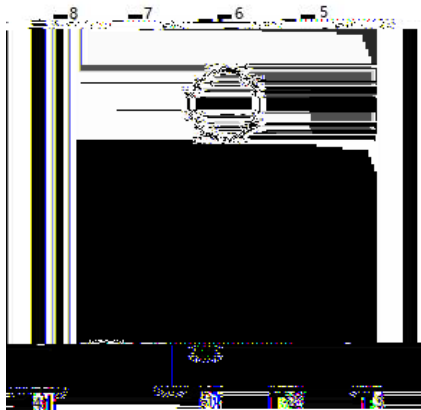


Figure 10: Normalized Maximum Transient Thermal Impedance

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/ Marking Instructions



060N04

Note

BR	Company Code
Q:	Automobile halogen-free product Code
060N04	Product Type
****.	Lot No. Code, code change with Lot No

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

Note:

- 1

150 200

60 120sec;

1.Preheating:150~200 , Time:60~120sec.
- 2

255 5

5 0.5sec;

2.Peak Temp.:255 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 ³) wGrp	CS/E
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