

BRCS080N02RA

Rev.B May.-2025

/ Descriptions

TO-220 N

N-CHANNEL MOSFET in a TO-220 Plastic Package.

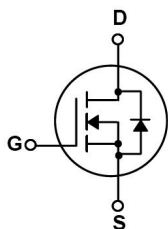
/ Features

Ultra Low On-Resistance,fast switching.

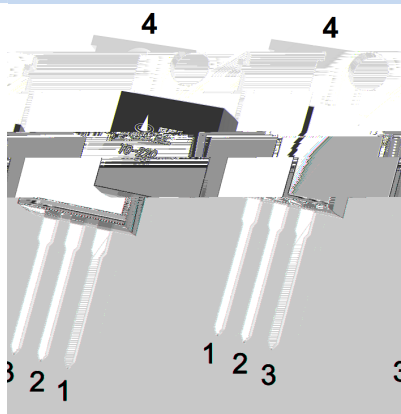
/ Applications

Power switching application,Load switching,Uninterruptible power supply

/ Equivalent Circuit



/ Pinning



PIN1 G

PIN 2 4 D

PIN 3 S

/ Marking

See Marking Instructions.

Parameter	Symbol	Rating
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/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Delay Time	$t_{d(on)}$	$V_{GS}=4.5V$ $V_{DS}=10V$ $R_L=1.25\Omega$ $R_{GEN}=3\Omega$		2.9		ns
Turn-On Rise Time	t_r			3.1		
Turn-Off Delay Time	$t_{d(off)}$			42		
Turn-Off Fall Time	t_f			10		

Electrical Characteristic Curve

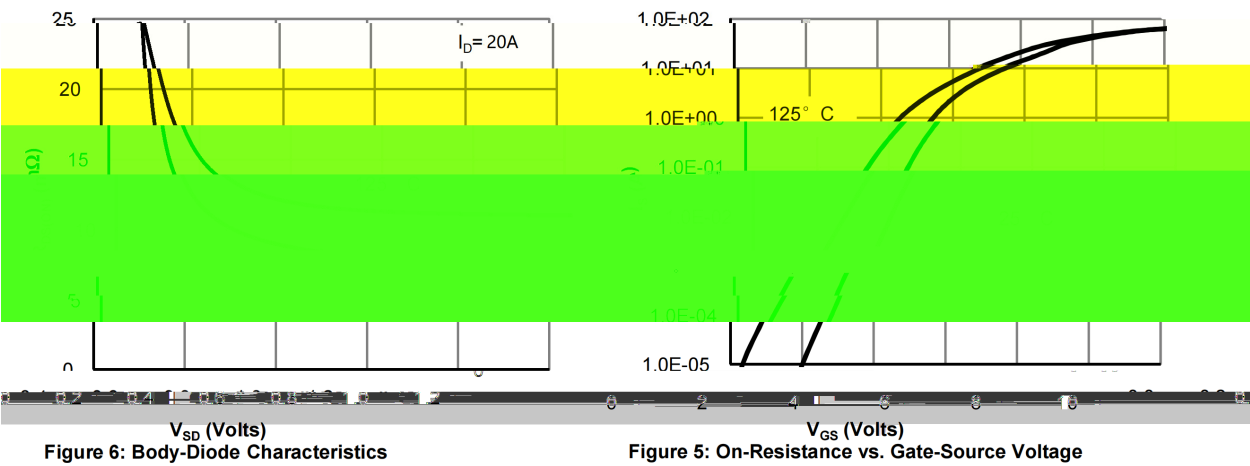
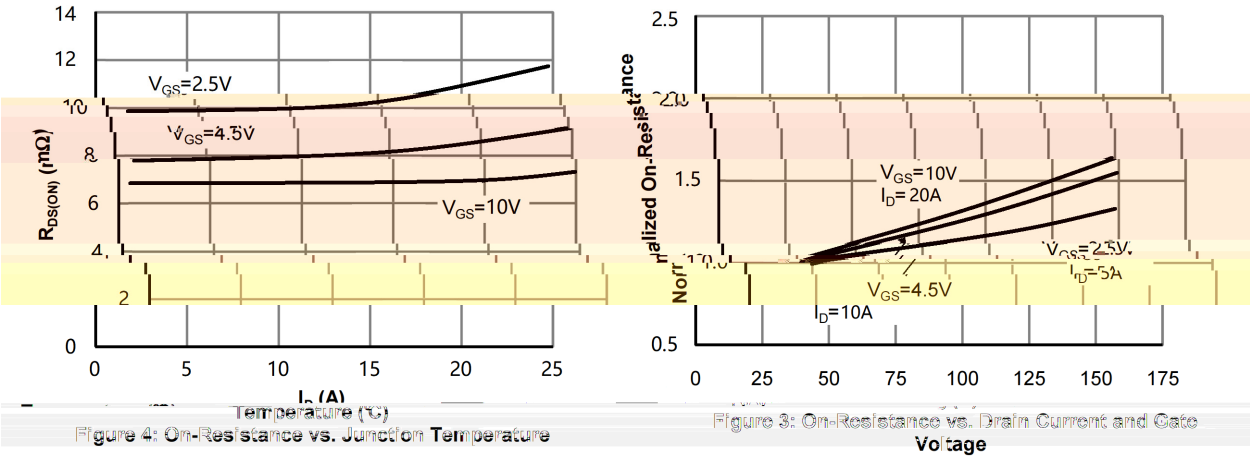
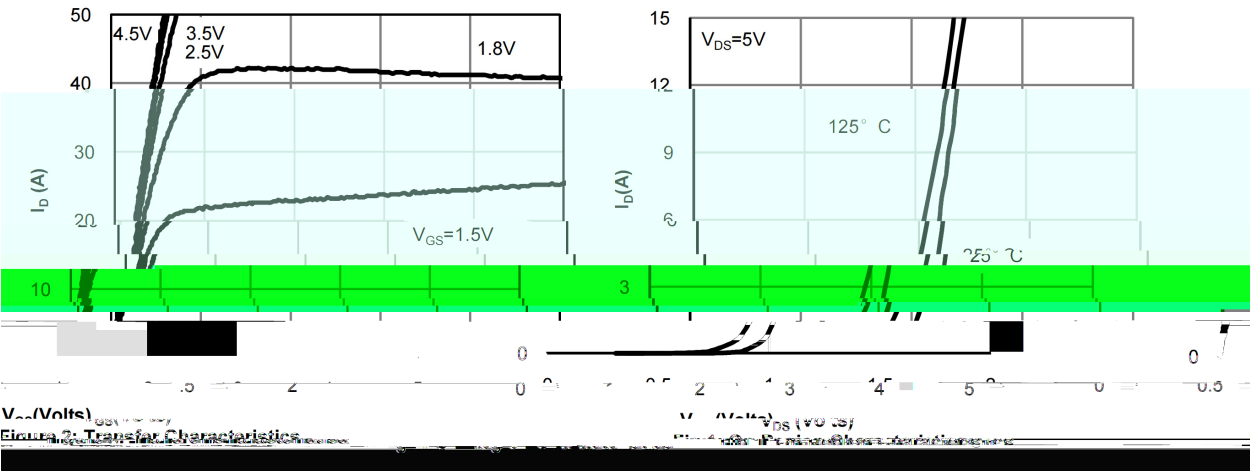
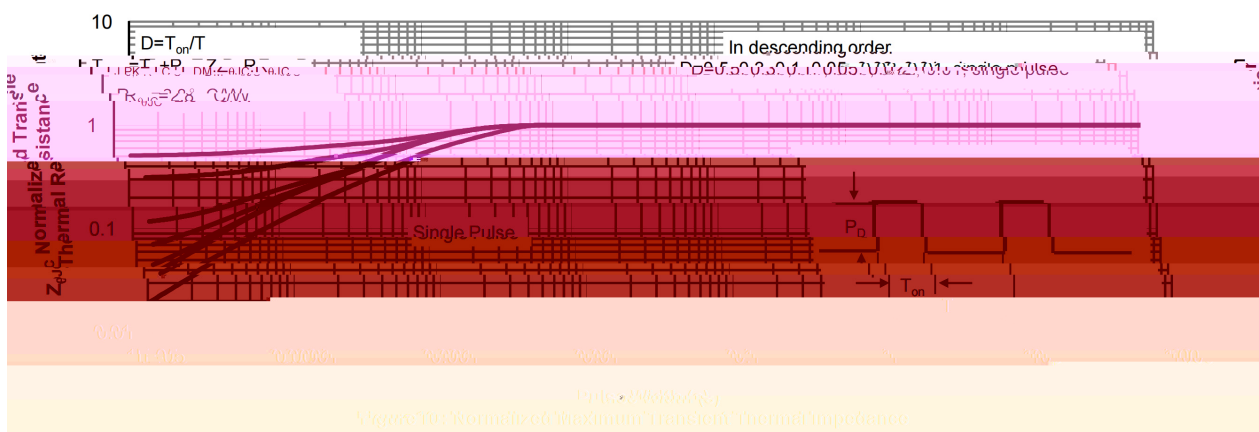
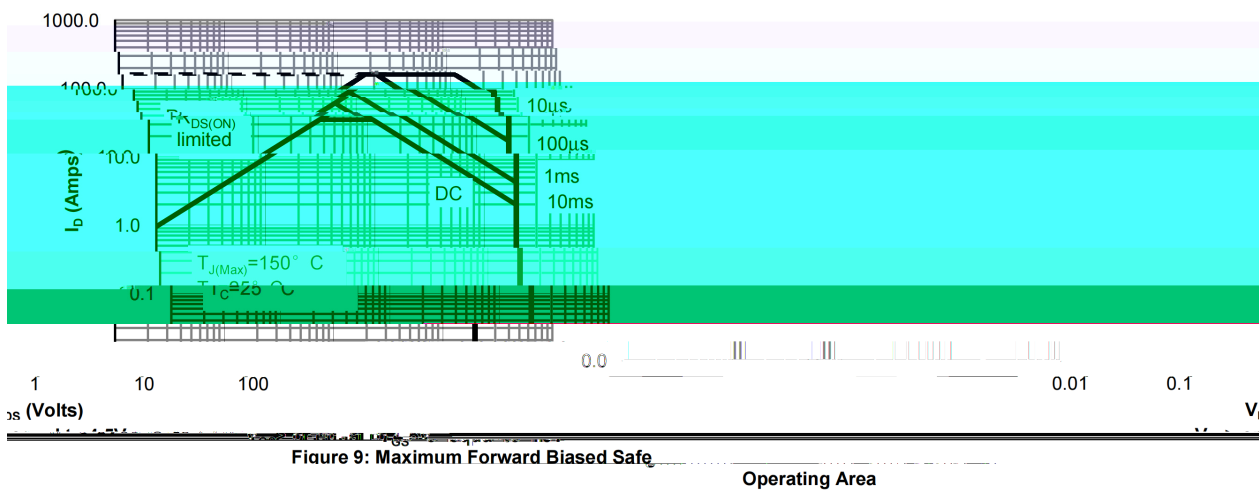
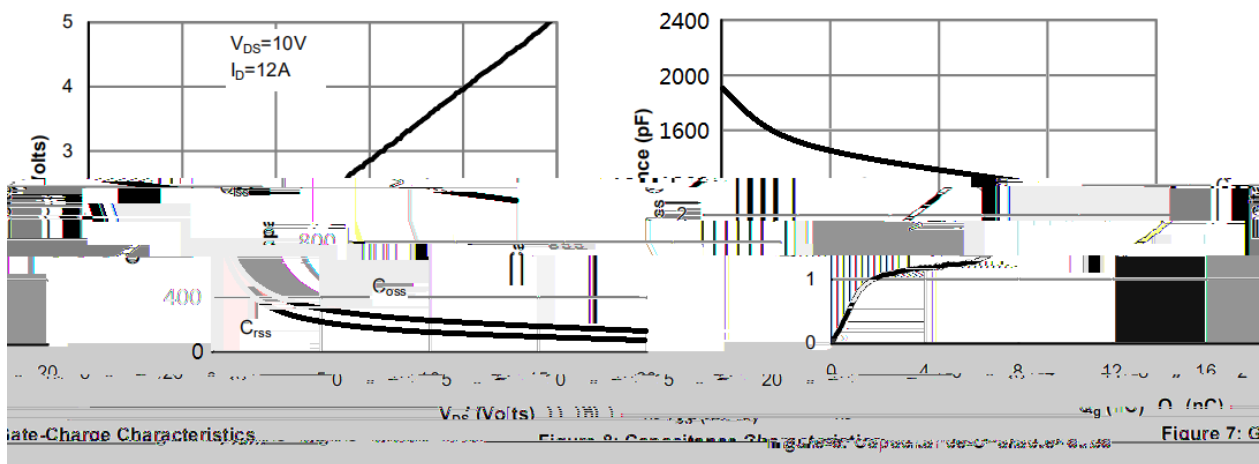


Figure 6: Body-Diode Characteristics

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

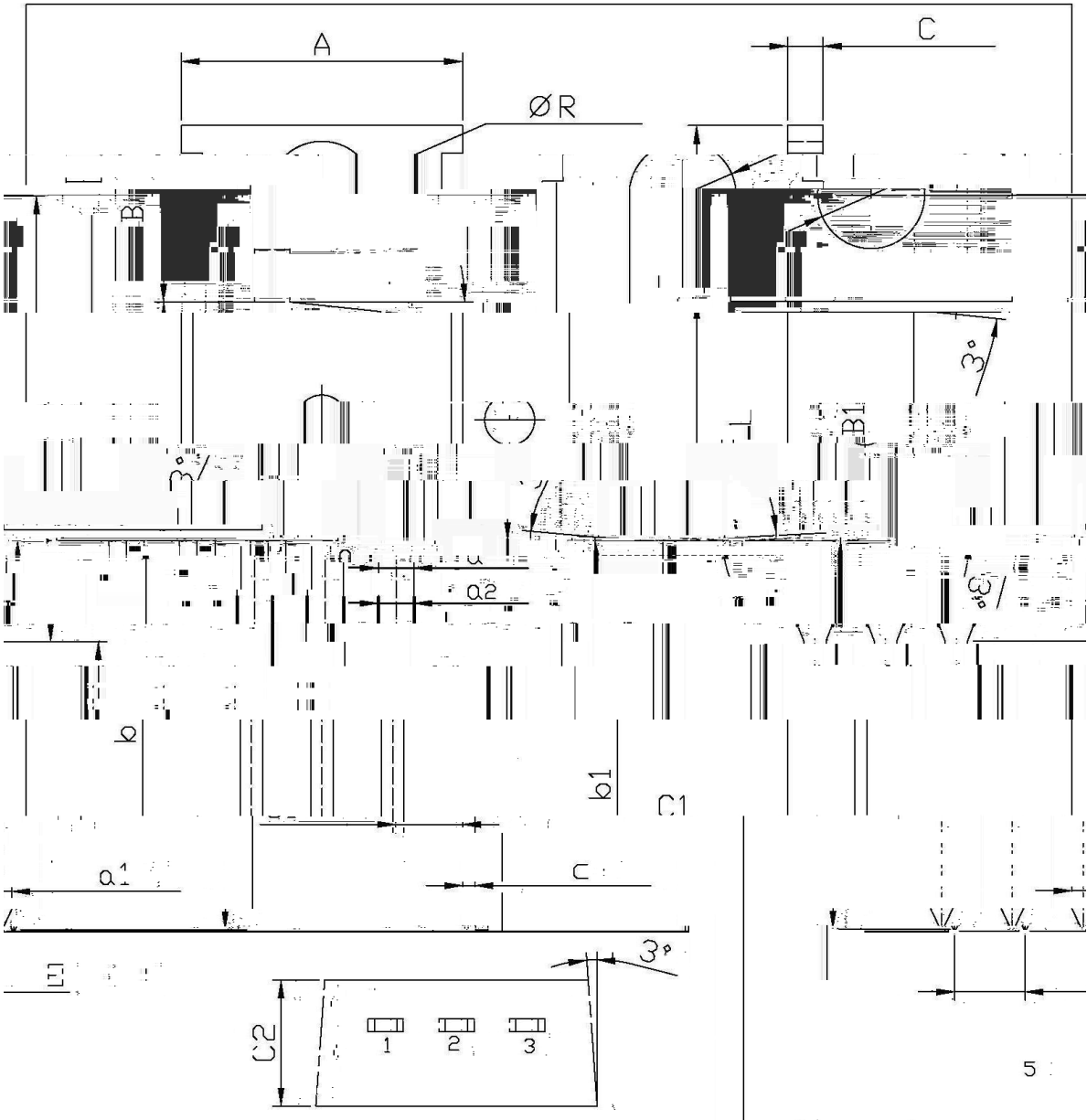
/ Electrical Characteristic Curve



/ Package Dimensions

TO-220

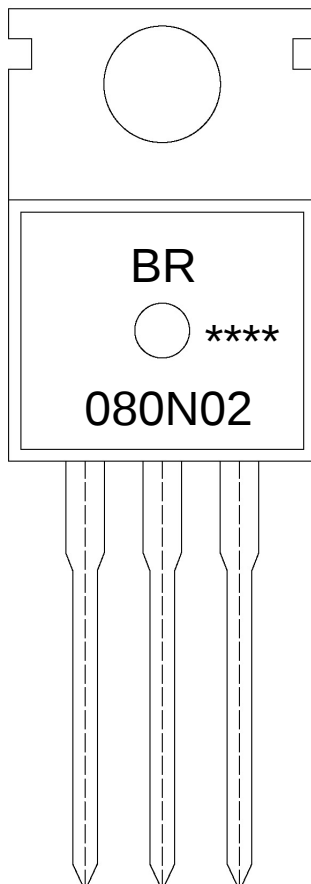
单位: mm



Dimensions In Millimeters				Dimensions In Millimeters			
Min	Max	Symbol	Min	Max	Symbol	Min	Max
2.5	1.4	A	9.8	10.2	C	1.2	1.4
3.3	6.7	R	3.56	3.64	B	1.2	1.4
9.0	9.4	B1	15.7	16.1	B1	1.2	1.4
2.6	2.6	C1	12.6	13.6	C1	1.2	1.4



/ Marking Instructions



BR

080N02

Note:

BR: Company Code

080N02: Product Type Code

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

