

BRCS080N02RA

Rev.B May.-2025

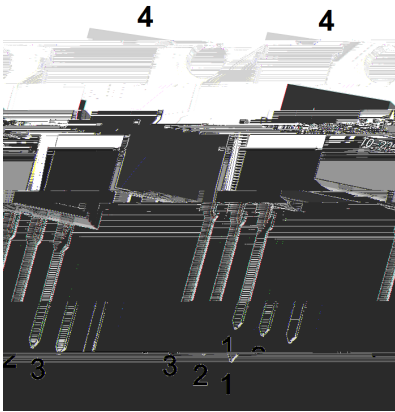
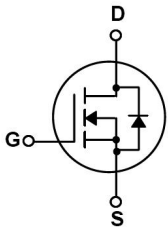
/ Descriptions

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

/ Features

Ultra Low On-Resistance,fast switching.

Power switching application,Load switching,Uninterruptible power supply



PIN1 G

PIN 2 4 D

PIN 3 S

/ Marking

See Marking Instructions.

Parameter

Symbol

Rating

/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Delay Time	$t_{d(on)}$	$V_{GS}=4.5V$ $V_{DS}=10V$ $R_L=1.25$ $R_{GEN}=3$		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

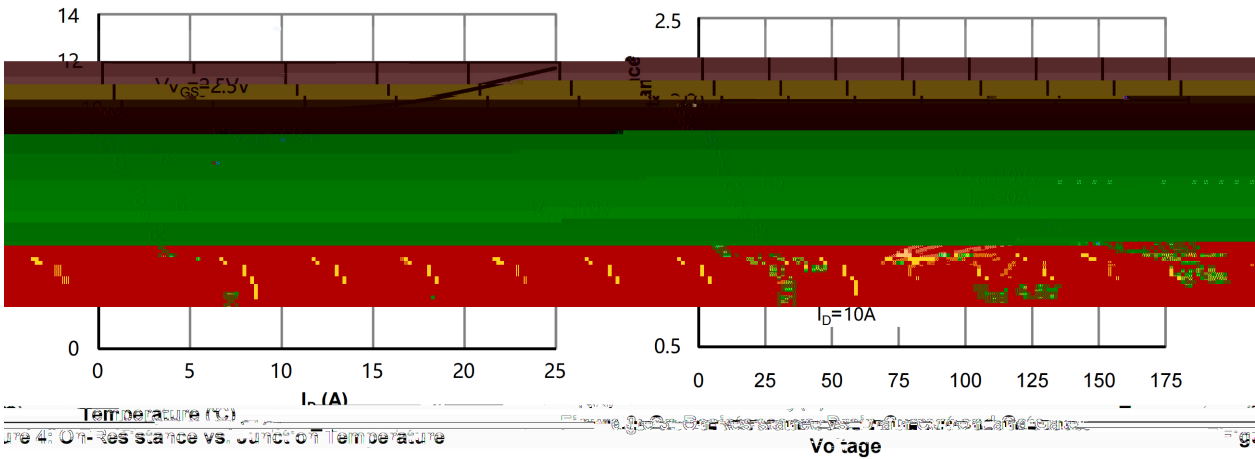
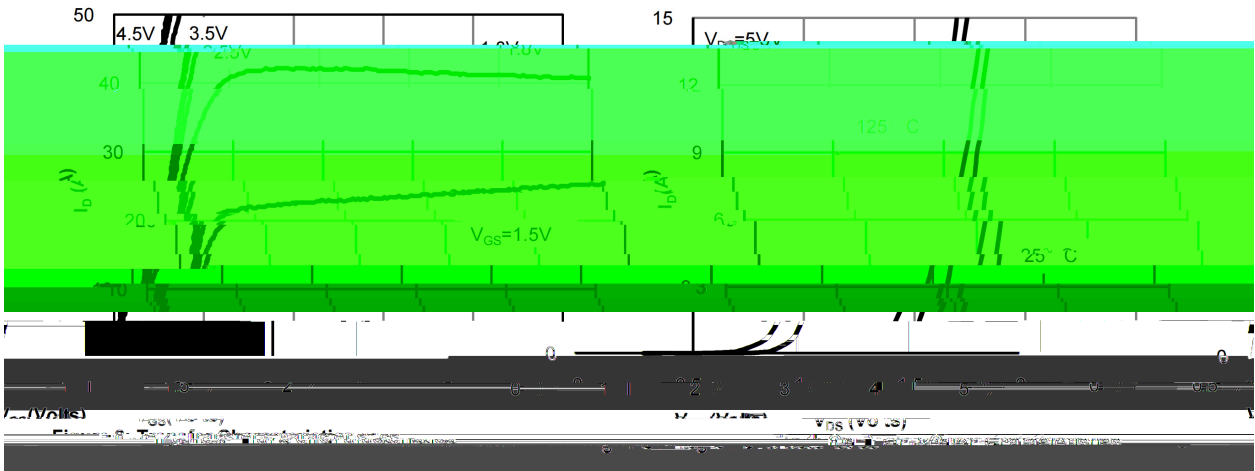
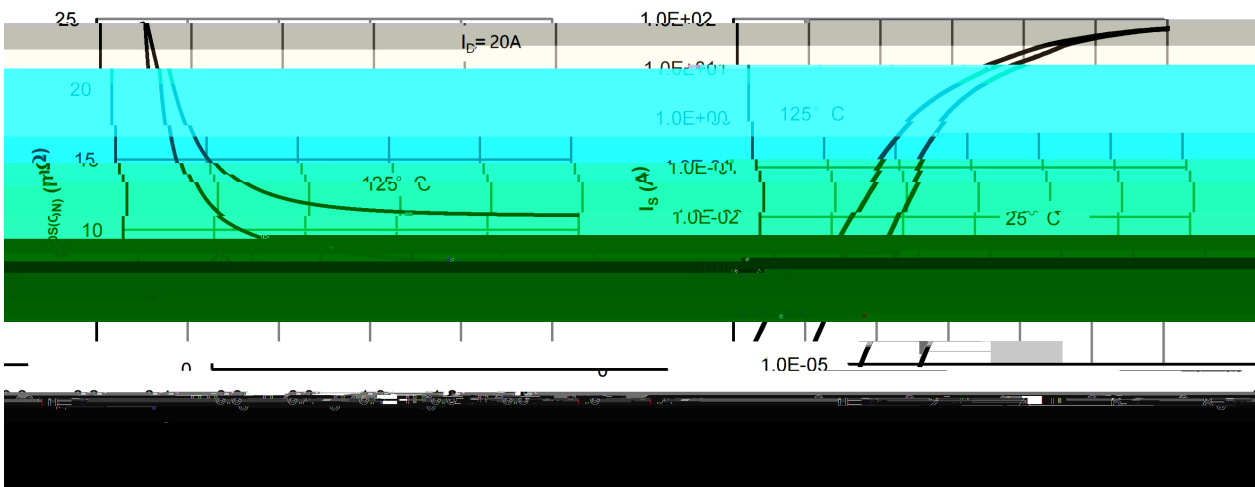
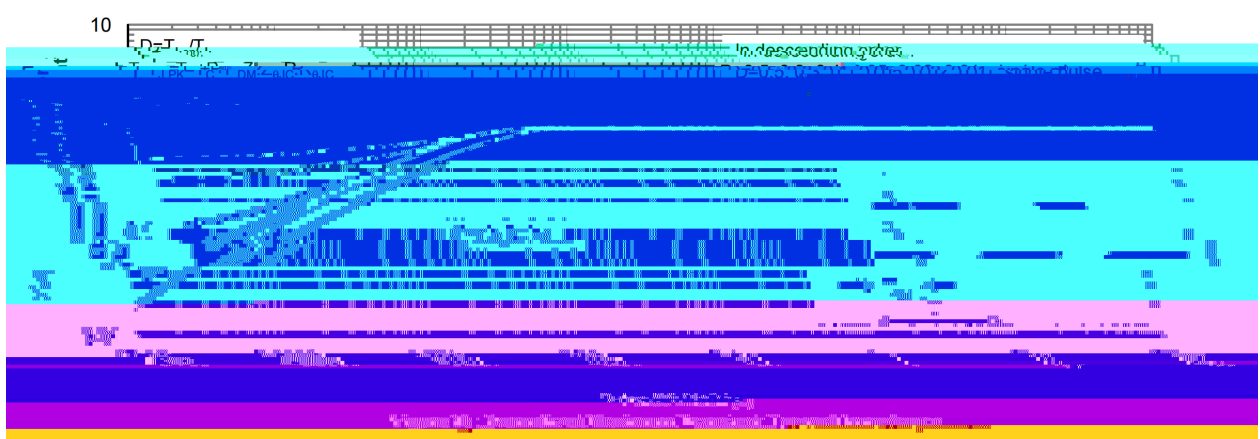
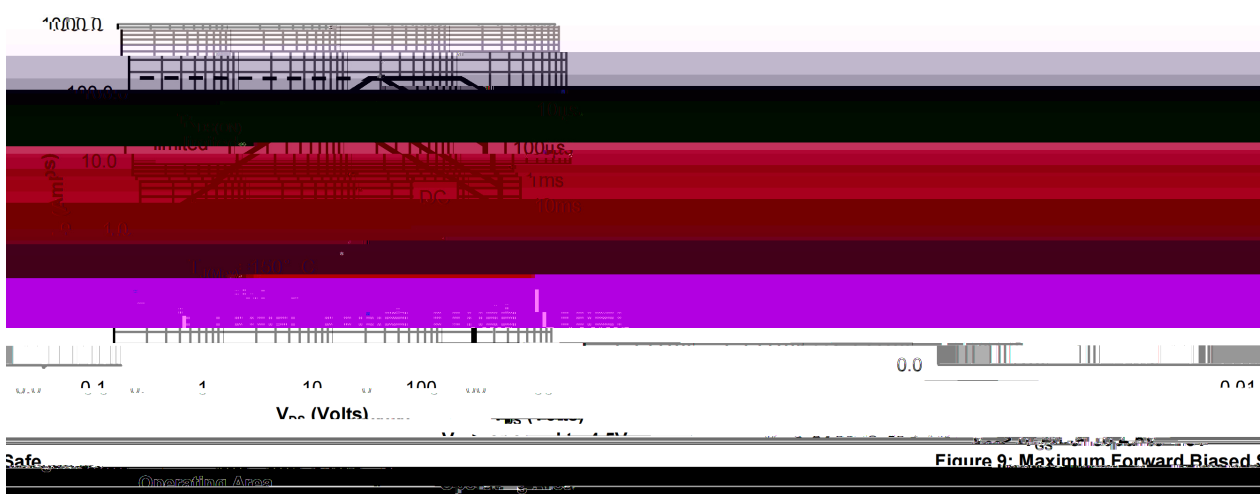
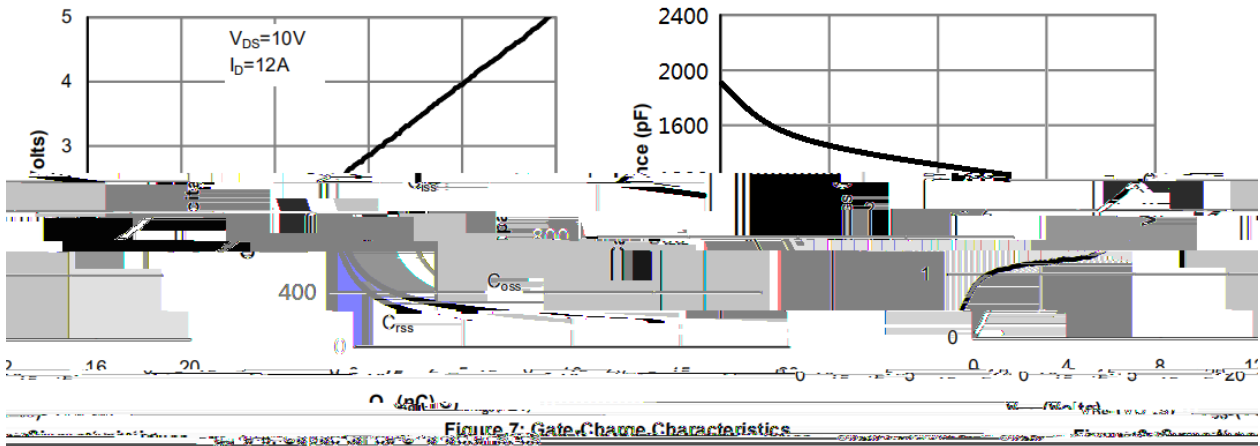


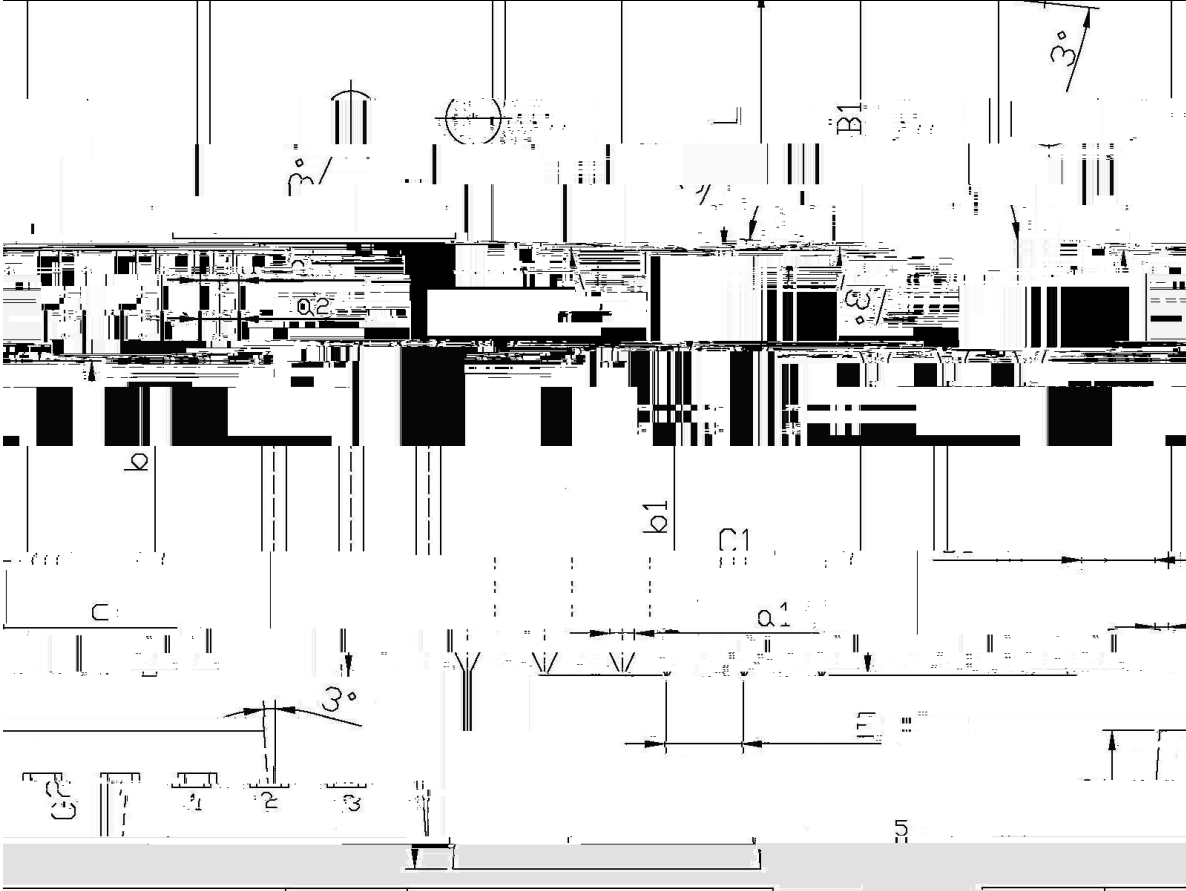
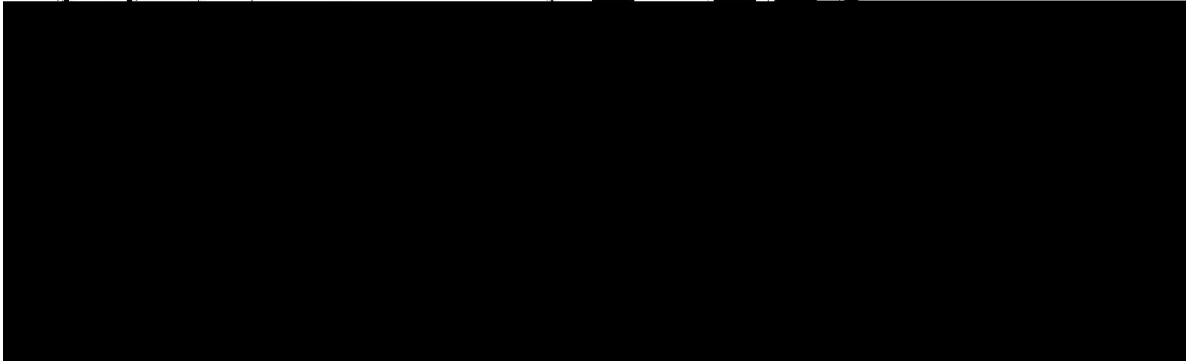
Figure 4: On-Resistance vs. Junction Temperature



/ Electrical Characteristic Curve



/ Package Dimensions



Symbol	Min	Max	Symbol	Min	Max
A	9.2	10.2	A	9.8	10.2
B	6.3	6.7	R	3.56	3.64
D	9.0	9.4	E	15.7	16.1
F	2.2	2.6	b	12.6	13.6



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DATA SHEET

