

# **BRCS150N10SDPQ**

Rev.A J





# BRCS150N10SDPQ

Rev.A Jun.-2022



DATA SHEET

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	$V_{DSS}$	100	V
Drain Current	$I_D(T_C=25^\circ\text{C})$	55	A
Drain Current - Pulsed	$I_{DM}$	138	A
Gate-Source Voltage	$V_{GS}$	$\pm 20$	V
Avalanche Current	$I_{AS}$	7.0	A
Single Pulsed Avalanche Energy(L=0.5mH)	$E_{AS}$	24.5	mJ
Power Dissipation	$P_D(T_C=25^\circ\text{C})$	73	W
Storage Temperature Range	$T_{stg}$	-55 to 150	$^\circ\text{C}$

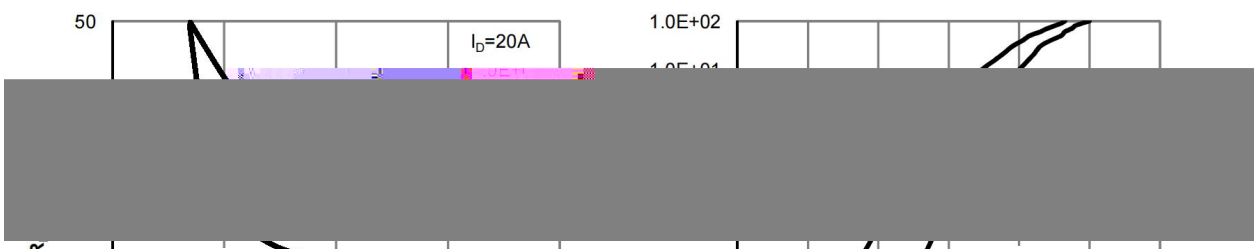
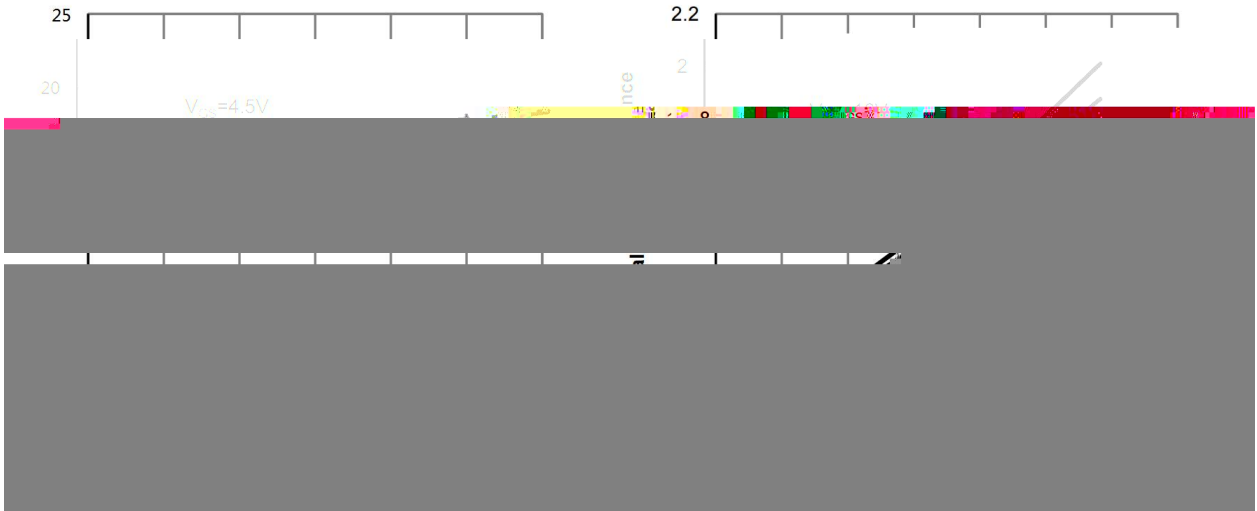
Thermal Resistance-Junction to Ambient  $t \leq 10\text{s}$

**/ Electrical Characteristics(Ta=25 )**

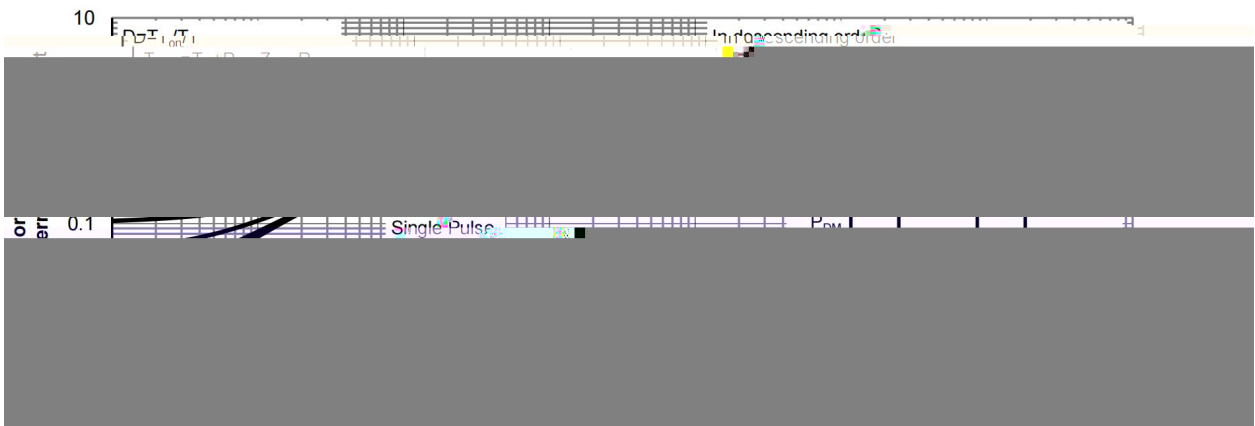
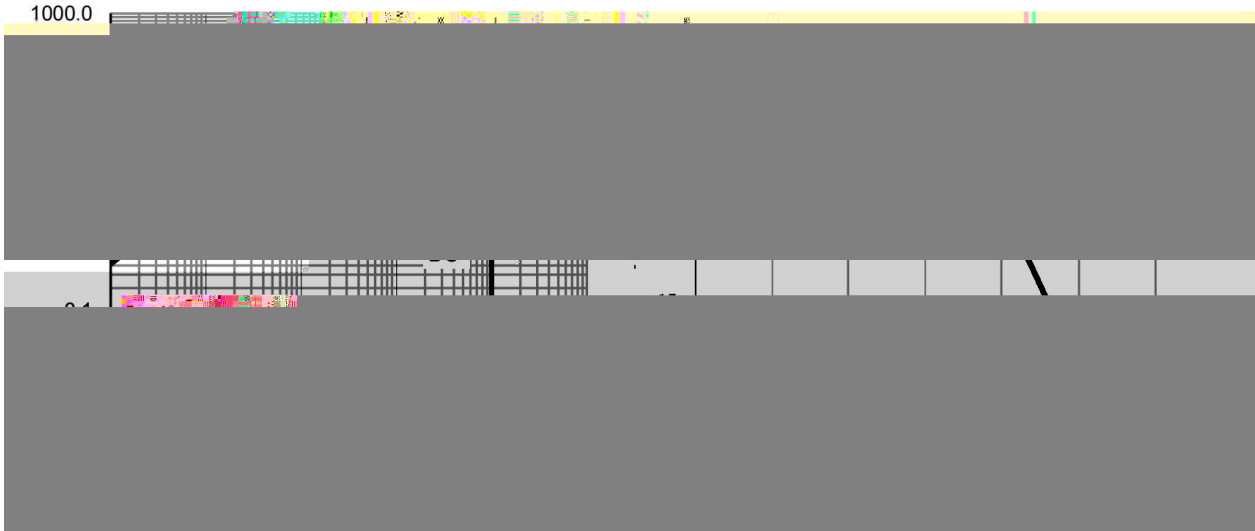
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Delay Time	$t_{d(on)}$	$V_{GS}=10V$ $V_{DS}=50V$ $R_L=2.5\ \Omega$ $R_{GEN}=3\ \Omega$		7		ns
Turn-On Rise Time	$t_r$			3		
Turn-Off Delay Time	$t_{d(off)}$			27		
Turn-Off Fall Time	$t_f$			4		



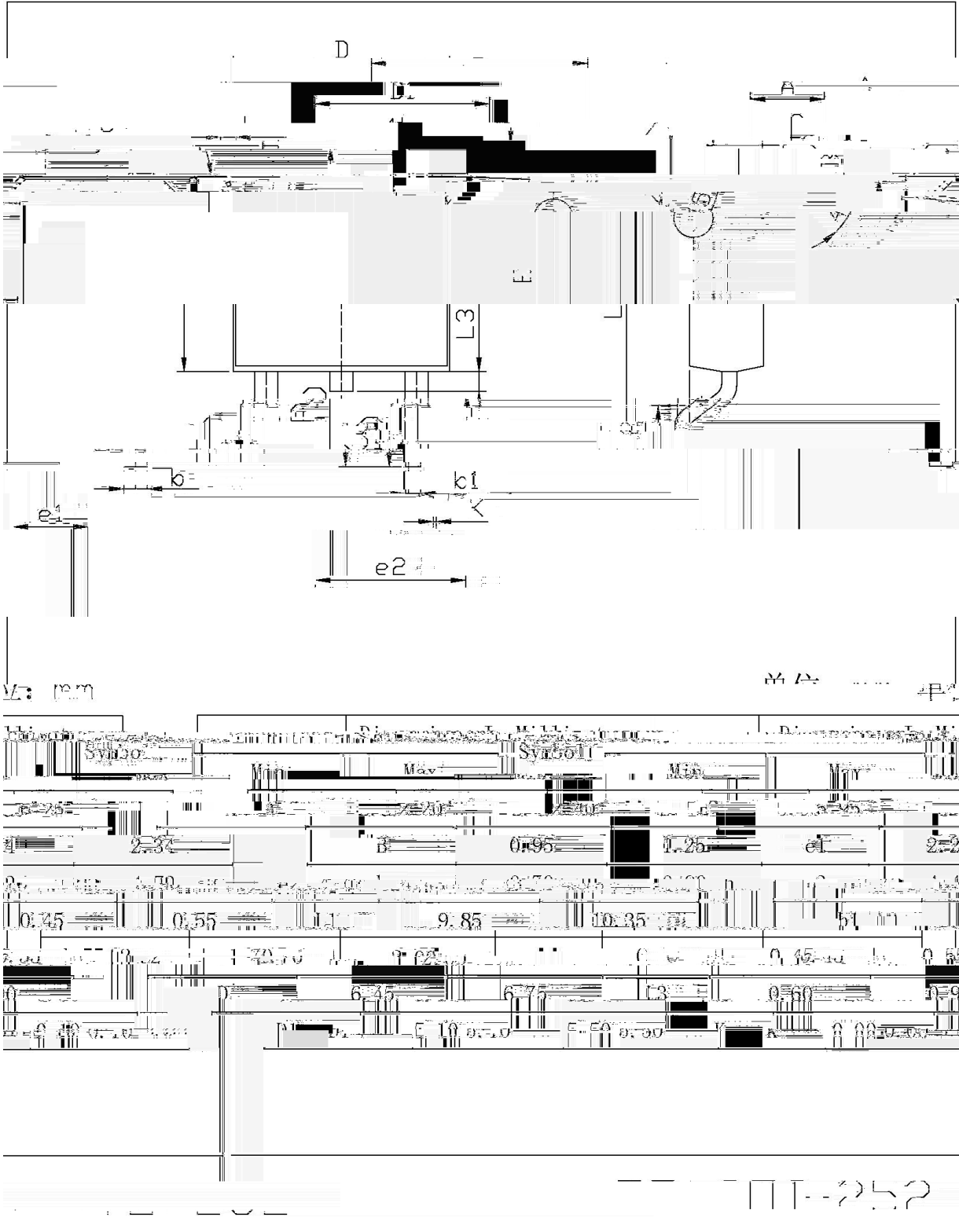
/ Electrical Characteristic Curve



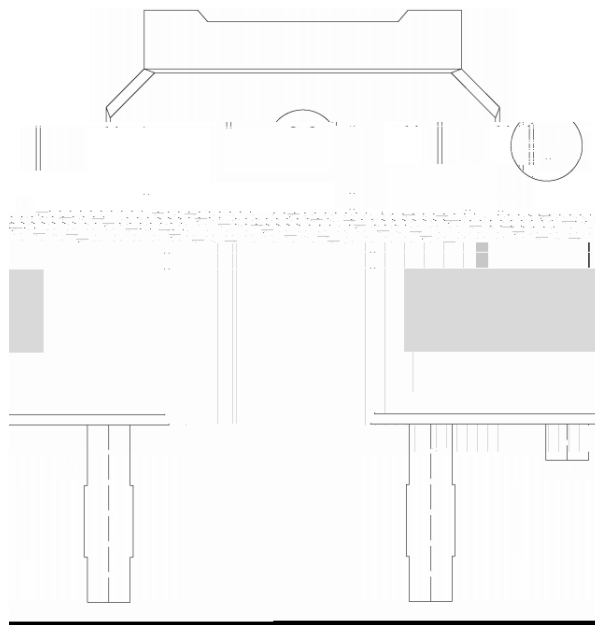
**/ Electrical Characteristic Curve**



**/ Package Dimensions**



**/ Marking Instructions**



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