



BRCS150N10SDPQ

Rev.A Jun.-2022



DATA SHEET

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

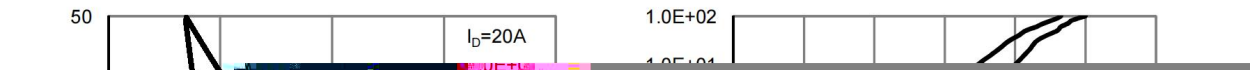
Thermal Resistance-Junction to Ambient $t \leq 10s$



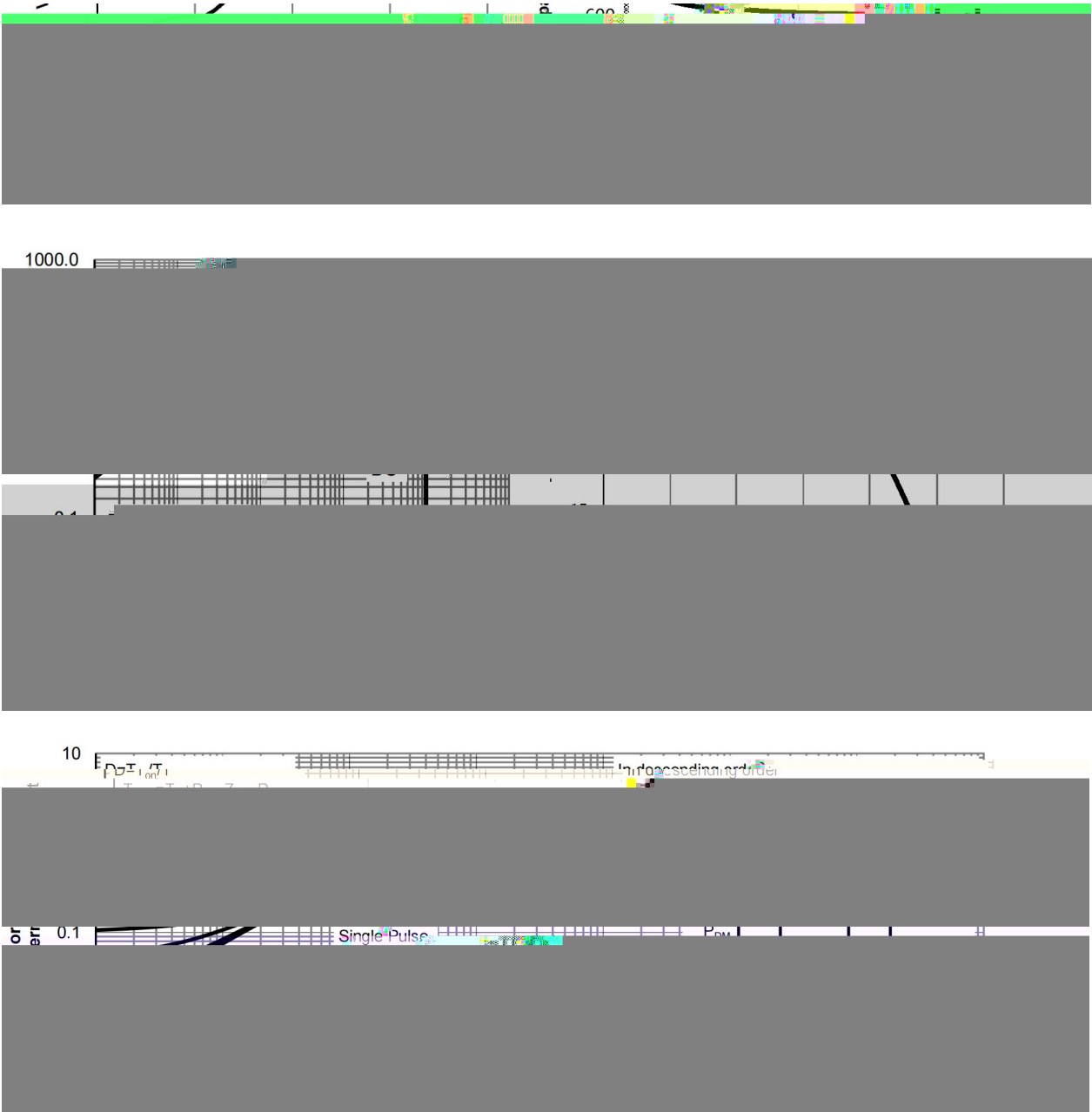
/ Electrical Characteristics(Ta=25)

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		

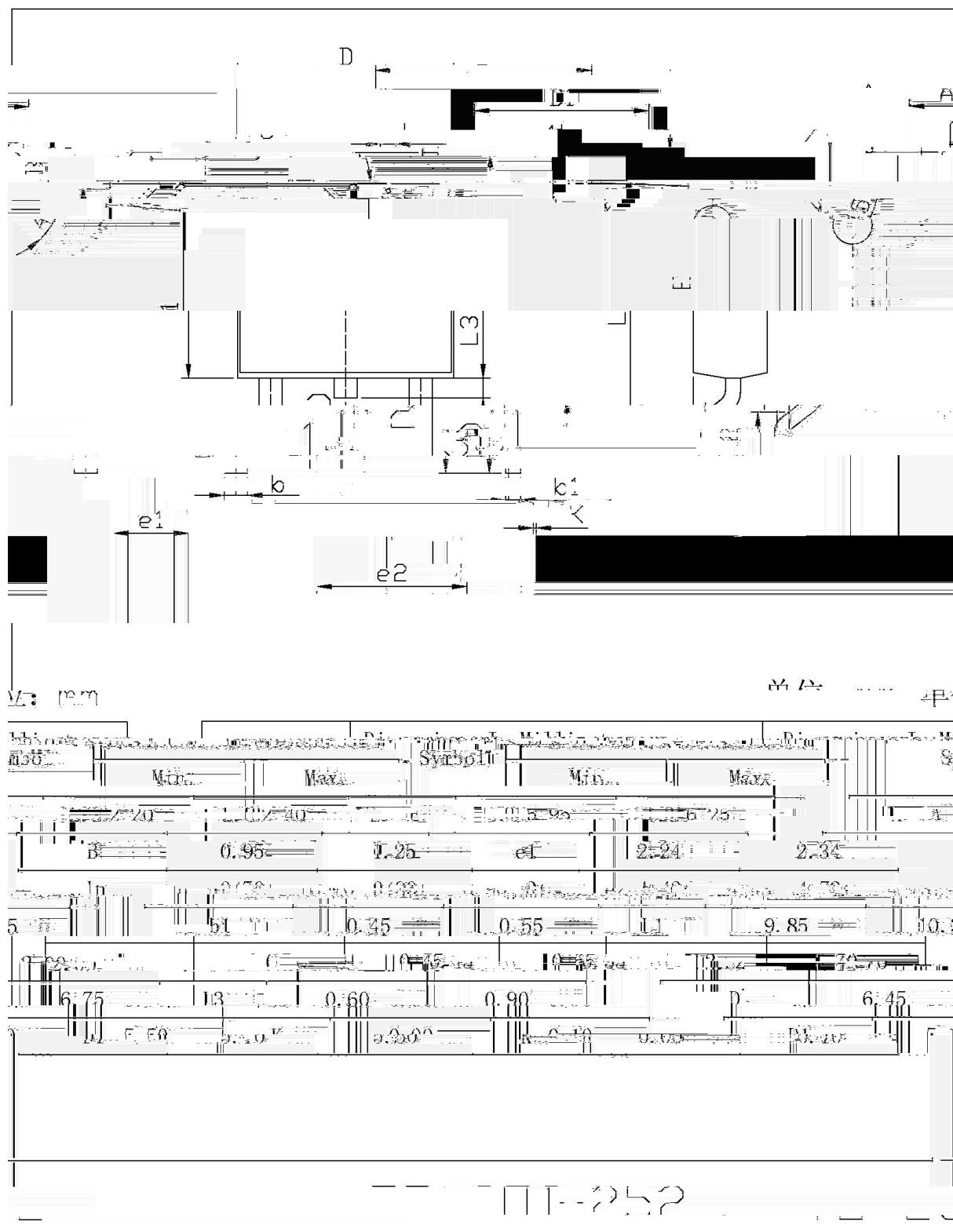
/ Electrical Characteristic Curve



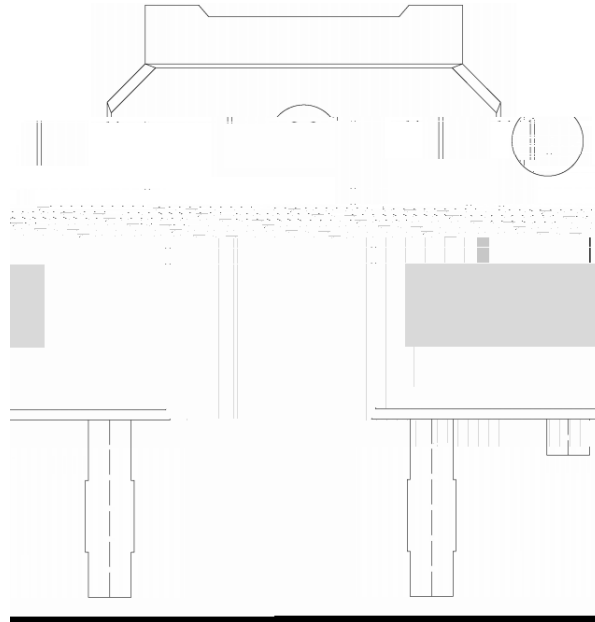
/ Electrical Characteristic Curve



/ Package Dimensions



/ Marking Instructions



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