DACO SEMICONDUCTOR CO., LTD.

SC5022 THRU SC5039

TRANSIENT VOLTAGE SUPPRESSOR TYPE 50A

50Amp
SOZA CELL

Features

High Surge Capability

High Current Capability

Low leakage

Maximum Ratings

Operating Temperature: -65 ℃ to +175 ℃

Storage Temperature: -65 ℃ to +175 ℃

Part Number	Blocking Voltage AT I_Z		Reverse Current I_Z	Maximum Reverse Current AT ☆V_R	
	MIN	MAX		25℃	150℃
SC5022	20V	24V	100mA	1.00uA	50uA
SC5025	24V	32V	100mA	1.00uA	50uA
SC5039	37V	41V	100mA	1.00uA	50uA

SC5022 ☆V_R=16V

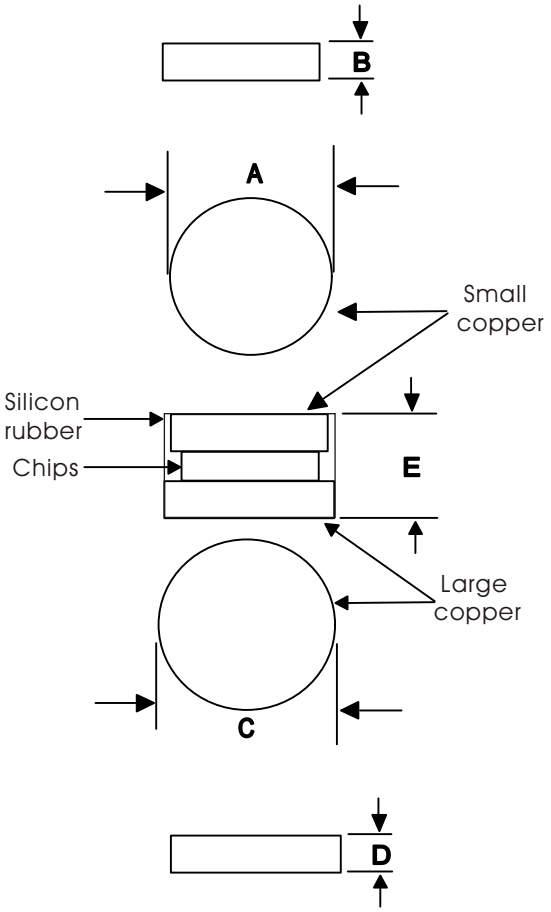
SC5025 ☆V_R =20V

SC5039 ☆V_R =28V

Electrical Characteristics @ 25 ℃ Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	50 A	T_C= 150℃
Peak Forward Surge Current	I_{FSM}	800A	8.3ms , Halfsine
Maximum Instantaneous Forward Voltage	V_F	1.00V	I_{FM} = 50A; T_J = 25 ℃
Forward Voltage Temperature Coefficient @IF=10mA	VFTC	2mV/℃	

*Pulse Test: Pulse Width 300 usec, Duty Cycle 2%



DIM	INCHES	MM	NOTE
A	.2580	6.55	
B	.0394	1.00	
C	.2841	7.23	
D	.0295	.750	
E	.0866	2.20	

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

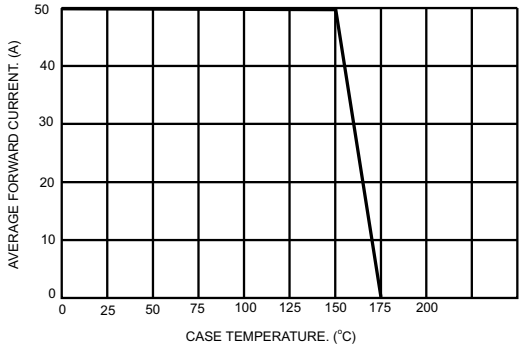


FIG.2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

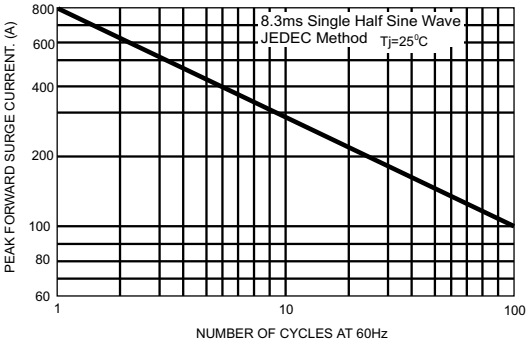


FIG.3- TYPICAL FORWARD CHARACTERISTICS

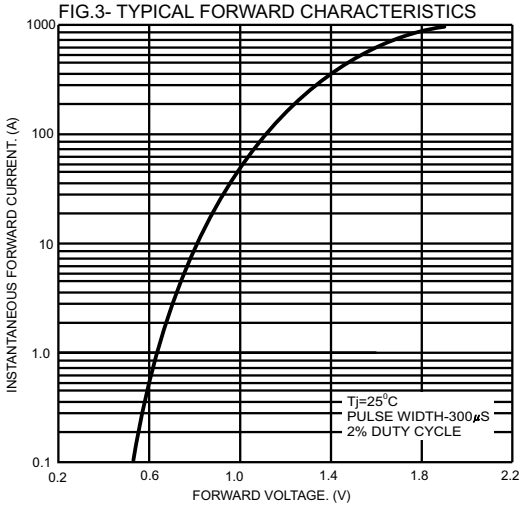


FIG.4-TYPICAL CAPACITANCE VS STAND-OFF VOLTAGE

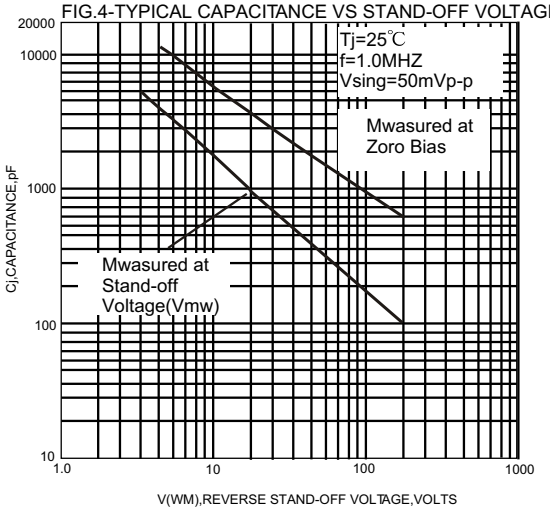


FIG.5-PULSE WAVEFORM

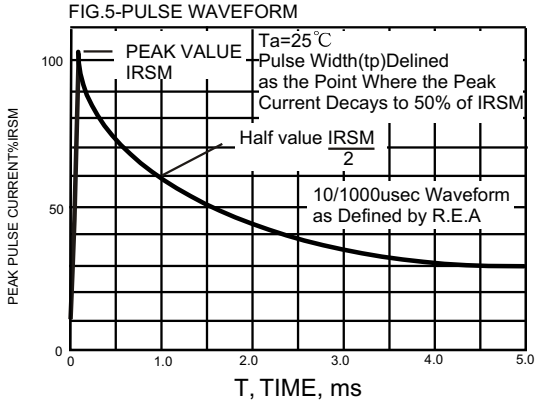


FIGURE .6- PULSE RATING CURVE