



TRANSIENT VOLTAGE SUPPRESSOR TYPE 40A

**Features**

- High Surge Capability
- High Current Capability
- Low leakage

**Maximum Ratings**

Operating Temperature: -65 °C to +175 °C  
Storage Temperature: -65 °C to +175 °C

Part Number	Blocking Voltage AT I <sub>Z</sub>		Reverse Current I <sub>Z</sub>	Maximum Reverse Current AT <sup>★</sup> V <sub>R</sub>	
	MIN	MAX		25 °C	150 °C
SC4022	20V	24V	100mA	1.00uA	50uA
SC4025	24V	32V	100mA	1.00uA	50uA
SC4039	37V	41V	100mA	1.00uA	50uA

SC4022 <sup>★</sup>V<sub>R</sub>=16V

SC4025 <sup>★</sup>V<sub>R</sub>=20V

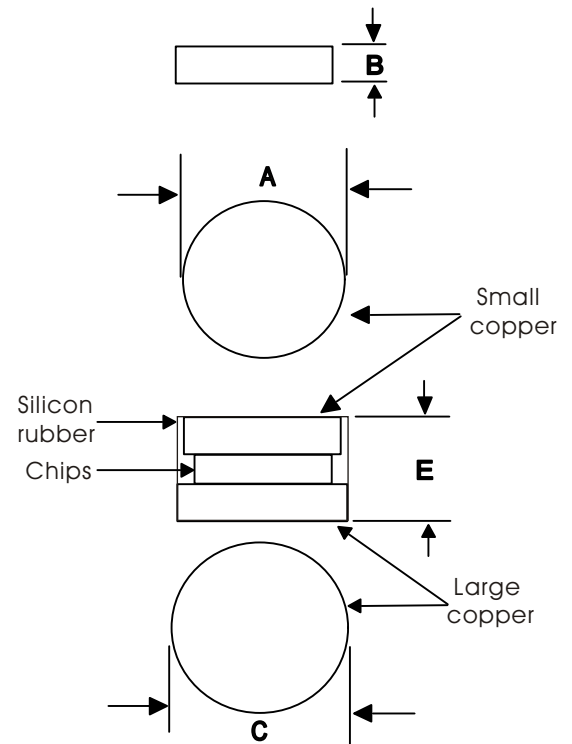
SC4039 <sup>★</sup>V<sub>R</sub>=28V

**Electrical Characteristics @ 25 °C Unless Otherwise Specified**

Average Forward Current	I <sub>F(AV)</sub>	40 A	T <sub>C</sub> =150 °C
Peak Forward Surge Current	I <sub>FSM</sub>	650A	8.3ms, Halfsine
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	1.00V	I <sub>FM</sub> = 40A; T <sub>J</sub> = 25 °C
Forward Voltage Temperature Coefficient @I <sub>F</sub> =10mA	V <sub>FTC</sub>	2mV/°C	

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

40Amp  
SOZA CELL



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



FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

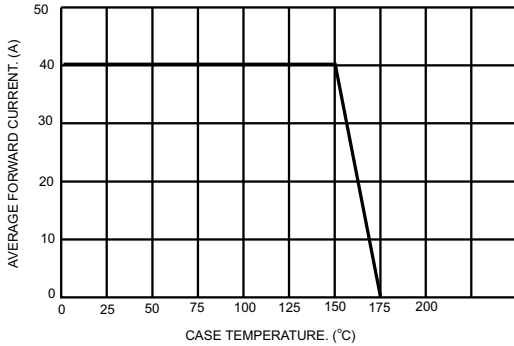


FIG.2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

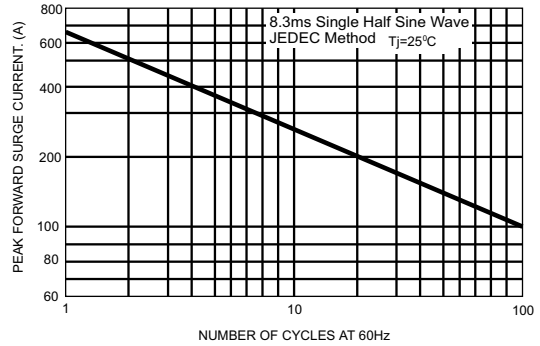


FIG.3- TYPICAL FORWARD CHARACTERISTICS

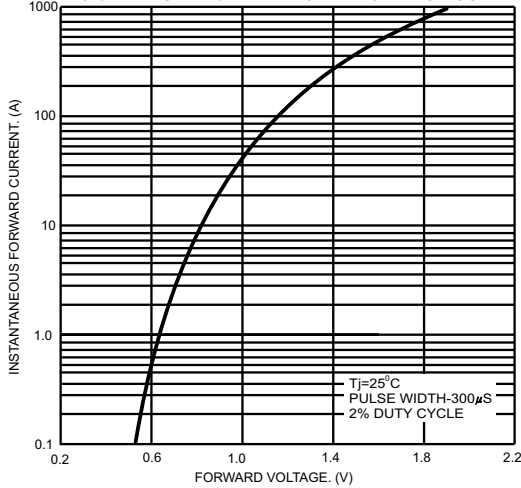


FIG.4- TYPICAL CAPACITANCE VS STAND-OFF VOLTAGE

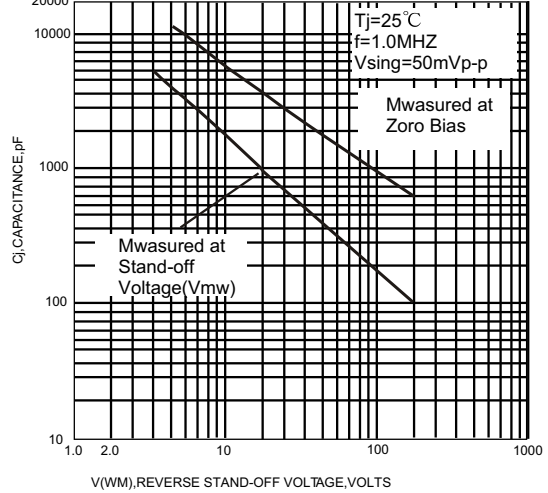


FIG.5- PULSE WAVEFORM

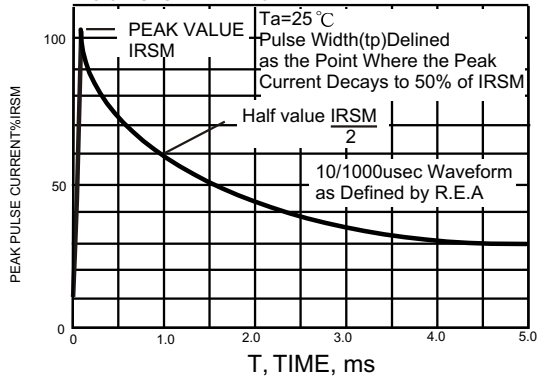


FIGURE 6- PULSE RATING CURVE

