

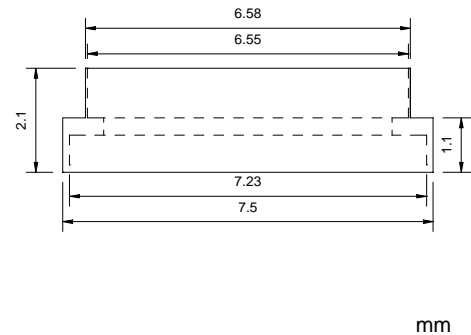
## TRANSIENT VOLTAGE SUPPRESSOR

VOLTAGE RANGE: 20 --- 41 V  
CURRENT: 50 A

### FEATURES

- ◇ High surge capability
- ◇ High current capability
- ◇ Low leakage

### SOZA CELL



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

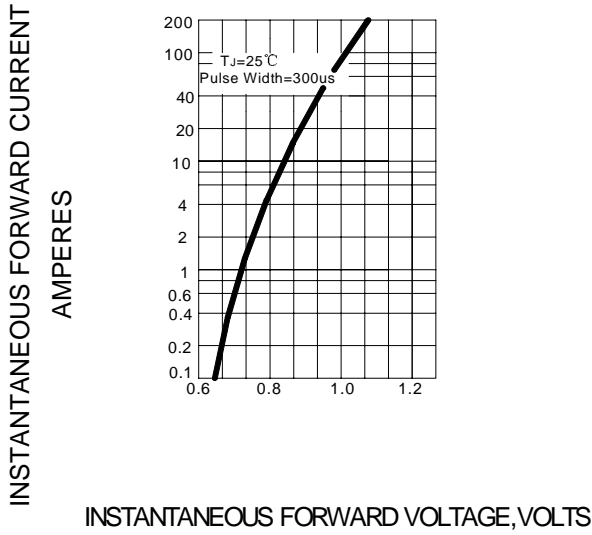
Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

			SC5022	SC5025	SC5039	UNITS
Blocking voltage	MIN	$V_{ZT}$	20	24	37	V
	@ $I_Z$		24	32	41	
Reverse current		$I_Z$	100			mA
Maximum average forward rectified current		$I_{F(AV)}$	50			A
Peak forward surge current		$I_{FSM}$	800			A
8.3ms single half-sine-wave superimposed on rated load @ $T_j=125^\circ\text{C}$						
Maximum instantaneous forward voltage		$V_F$	1.0			V
(I <sub>F</sub> =50 Amps, T <sub>J</sub> =25 °C)						
Maximum reverse current at rated DC blocking voltage (Note 1)	@ $T_j=25^\circ\text{C}$ @ $T_j=100^\circ\text{C}$	$I_R$	1.0 50			$\mu\text{A}$
Operating junction temperature range		$T_j$	- 65 ---- + 175			°C
Storage temperature range		$T_{STG}$	- 65 ---- + 175			°C

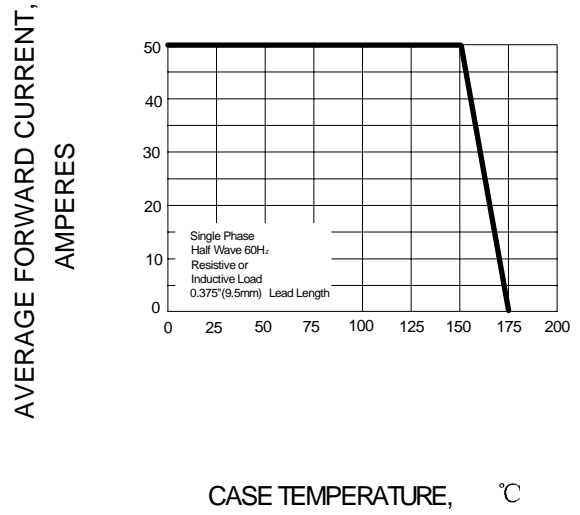
Note 1: SC5022 @ $V_R=16\text{V}$   
SC5025 @ $V_R=20\text{V}$   
SC5039 @ $V_R=28\text{V}$

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**FIG.1 –TYPICAL FORWARD CHARACTERISTIC**



**FIG.4 – FORWARD DERATING CURVE**



**FIG.3 – PEAK FORWARD SURGE CURRENT**

