

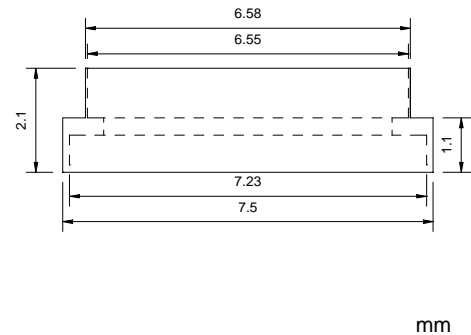
TRANSIENT VOLTAGE SUPPRESSOR

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
	MAX		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 _F =50 Amps, T _J =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			μA
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

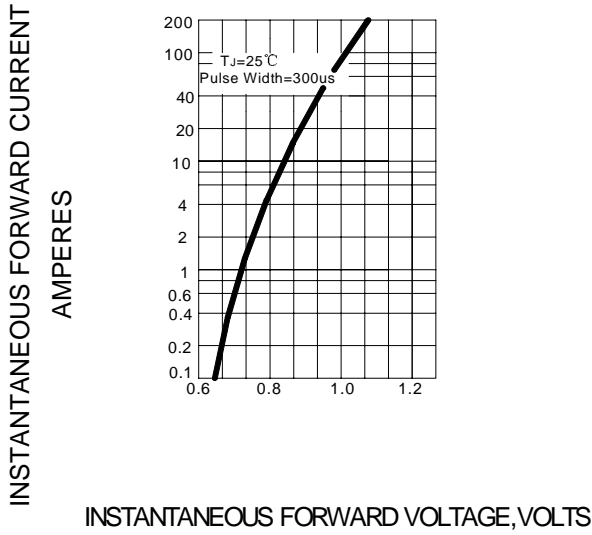


FIG.4 – FORWARD DERATING CURVE

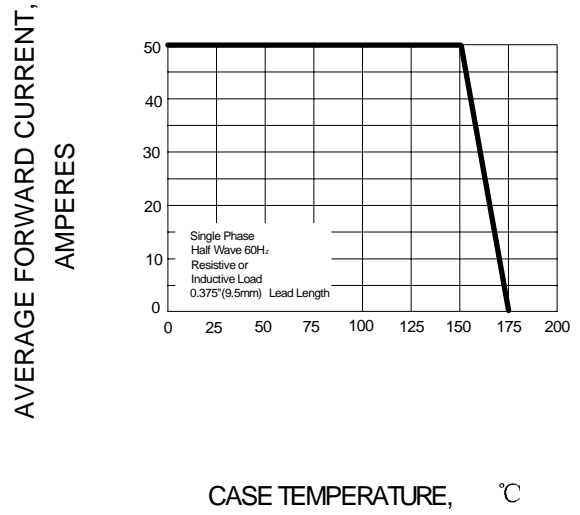


FIG.3 – PEAK FORWARD SURGE CURRENT

