

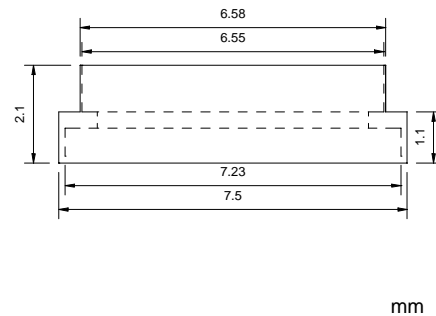
## TRANSIENT VOLTAGE SUPPRESSOR

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.

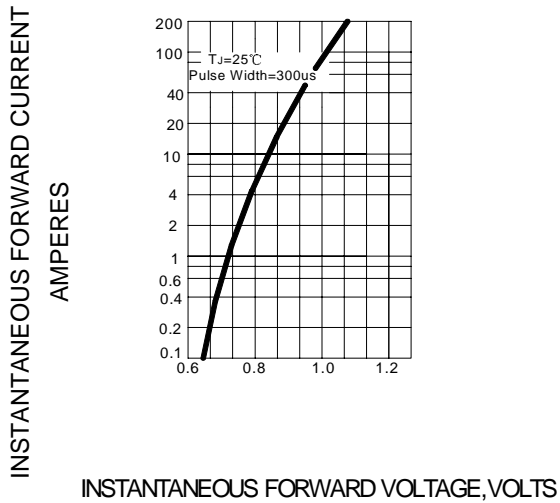
Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

			SC5022	SC5025	SC5039	UNITS
Blocking voltage	MIN		20	24	37	V
	MAX	$V_{ZT}$	24	32	41	
Reverse current		$I_Z$		100		mA
Maximum average forward rectified current		$I_{F(AV)}$		50		A
Peak forward surge current						
8.3ms single half-sine-wave superimposed on rated load		$I_{FSM}$		800		A
Maximum instantaneous forward voltage		$V_F$		1.0		V
( $I_F=50$ Amps, $T_J=25^\circ\text{C}$ )						
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		$^\circ\text{C}$
Storage temperature range		$T_{STG}$		- 65 --- + 175		$^\circ\text{C}$

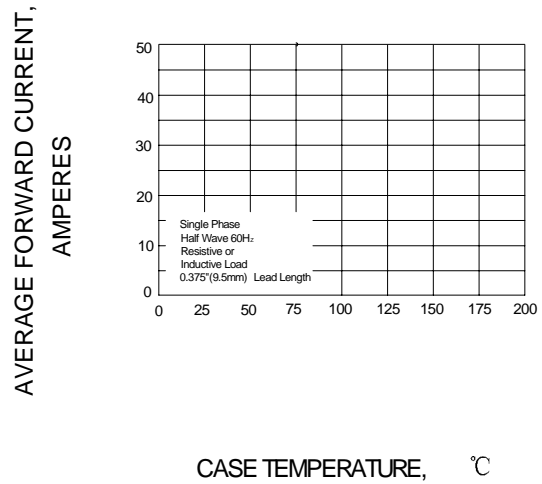
Note 1: SC5022 @ $V_R=16\text{V}$   
SC5025 @ $V_R=20\text{V}$   
SC5039 @ $V_R=28\text{V}$

www.galaxycn.com

**FIG.1 – TYPICAL FORWARD CHARACTERISTIC**



**FIG.4 – FORWARD DERATING CURVE**



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

