

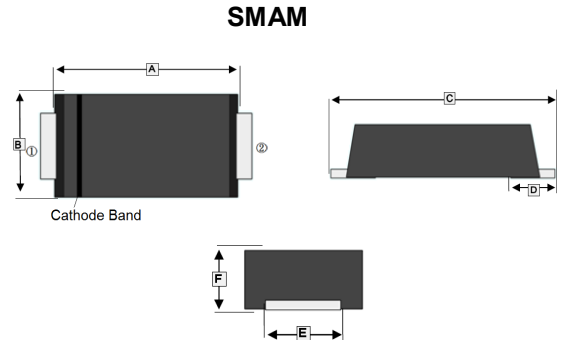
RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

## FEATURES

- Schottky barrier chip
- Low power loss
- High efficiency

## PACKAGE INFORMATION

Package	MPQ	Leader Size
SMAM	10K	13 inch



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	3.20	3.70	D	1 TYP.	
B	2.40	2.80	E	1.30	1.60
C	4.40	4.90	F	0.90	1.10

## ABSOLUTE MAXIMUM RATINGS

(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load.

For capacitive load, de-rate current by 20%.)

Parameter	Symbol	Rating	Unit
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	150	V
Maximum RMS Voltage	$V_{RMS}$	105	V
Maximum DC Blocking Voltage	$V_{DC}$	150	V
Maximum Average Forward Rectified Current@ $T_L=90^\circ\text{C}$	$I_F$	5	A
Peak Forward Surge Current@ 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	110	A
$I^2t$ Rating for Fusing@ $t < 8.3\text{ms}$	$I^2t$	50.215	$\text{A}^2\text{s}$
Maximum Instantaneous Forward Voltage@ $I_F=5\text{A}^1$	$V_F$	0.85	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	$T_A=25^\circ\text{C}$	0.1
		$T_A=100^\circ\text{C}$	5
Typical Junction Capacitance	$C_J$	28	pF
Typical Thermal Resistance from Junction to Ambient@ per leg <sup>2</sup>	$R_{\theta JA}$	88	$^\circ\text{C/W}$
Operating Junction and Storage Temperature	$T_J, T_{STG}$	150, -55~150	$^\circ\text{C}$

Notes:

1. Pulse Test: Pulse width=300 $\mu\text{s}$ , duty cycle=1%.
2. P.C.B. mounted with 5 X 5 x 0.13 mm copper pad areas.

**CHARACTERISTIC CURVES**

Fig. 1 Forward Current Derating Curve

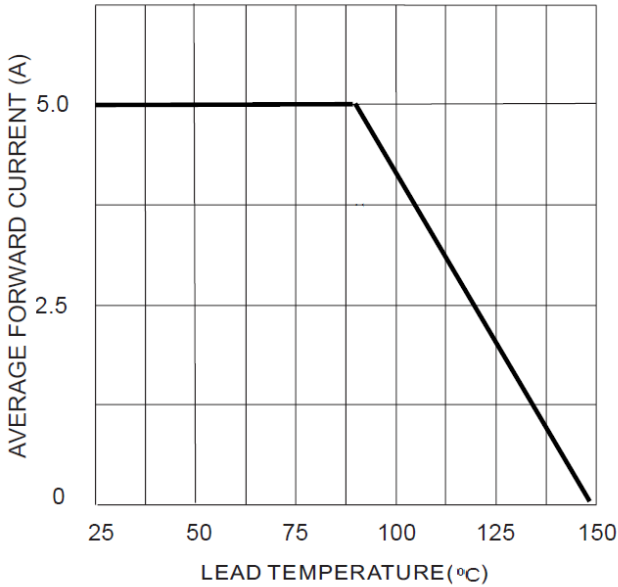


Fig. 2 Typ. Forward Characteristics

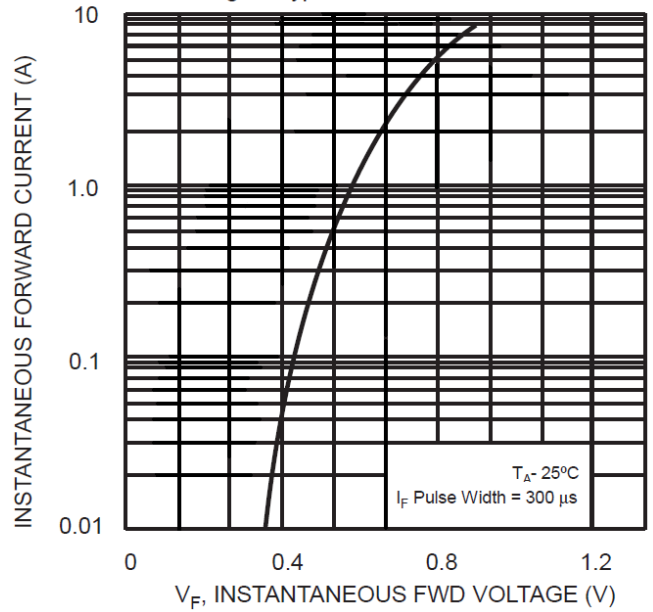


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

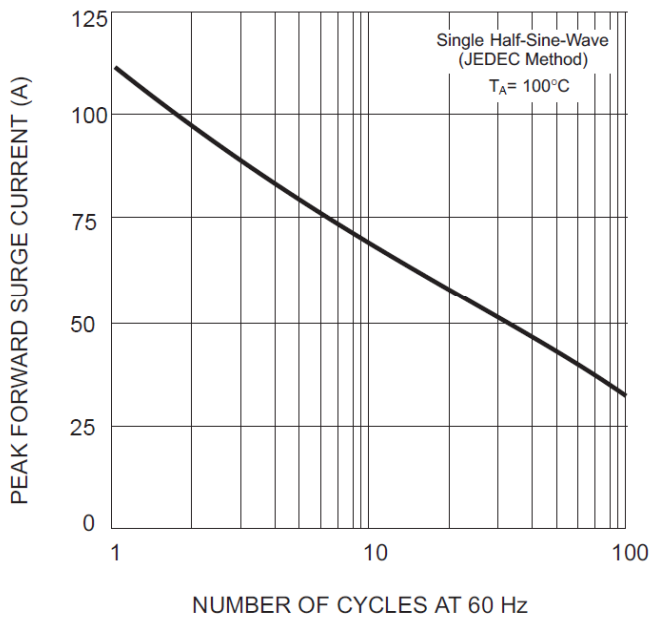


Fig. 4 T typical Reverse Characteristics (per element)

