

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

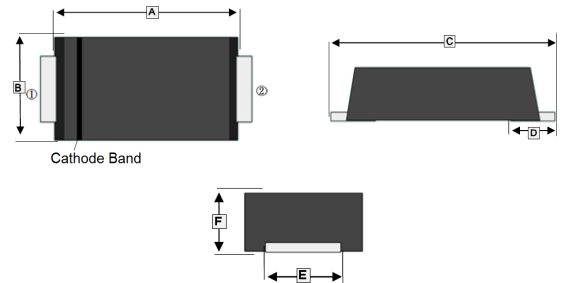
**FEATURES**

- Low profile package
- Glass Passivated Chip Junction
- Lead free in comply with EU RoHS 2011/65/EU directives

**MECHANICAL DATA**

- Case : SMAM
- Terminals: Solderable per MIL-STD-750, Method 2026
- Weight: 27 mg (Approximate)

**SMAM**



**MARKING**

Part Number	Marking Code	Part Number	Marking Code
SMF201AM	RS2A	SMF205AM	RS2J
SMF202AM	RS2B	SMF206AM	RS2K
SMF203AM	RS2D	SMF207AM	RS2M
SMF204AM	RS2G		

REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	3.30	3.70	D	0.80	1.20
B	2.40	2.70	E	1.30	1.60
C	4.40	4.90	F	0.90	1.10

**PACKAGE INFORMATION**

Package	MPQ	Leader Size
SMAM	3K	7 inch

**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	Part Number							Unit
		SMF 201AM	SMF 202 AM	SMF 203 AM	SMF 204AM	SMF 205AM	SMF 206AM	SMF 207AM	
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current	$I_F$	2							A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	50							A
Maximum Instantaneous Forward Voltage $I_F=2A @ 25^\circ C$	$V_F$	1.3							V
Maximum DC Reverse Current at Rated DC Blocking Voltage	$T_A=25^\circ C$	5							$\mu A$
	$T_A=125^\circ C$	100							
Maximum Reverse Recovery Time <sup>1</sup>	$T_{RR}$	150			250	500		nS	
Typical Junction Capacitance <sup>3</sup>	$C_J$	40							pF
Typical Thermal Resistance <sup>2</sup>	$R_{\theta JL}$	22							$^\circ C/W$
Typical Thermal Resistance <sup>2</sup>	$R_{\theta JC}$	30							$^\circ C/W$
Operating & Storage Temperature	$T_J, T_{STG}$	-55~ 150							$^\circ C$

Notes:

1. Measured with  $I_F=0.5A, I_R=1A, I_{RR}=0.25A$
2. P.C.B. mounted with 10 X 10 x 0.2 mm copper pad areas.
3. Measured at 1MHz and applied reverse voltage of 4V D.C

**RATINGS AND CHARACTERISTIC CURVES**

Fig.1 Forward Current Derating Curve

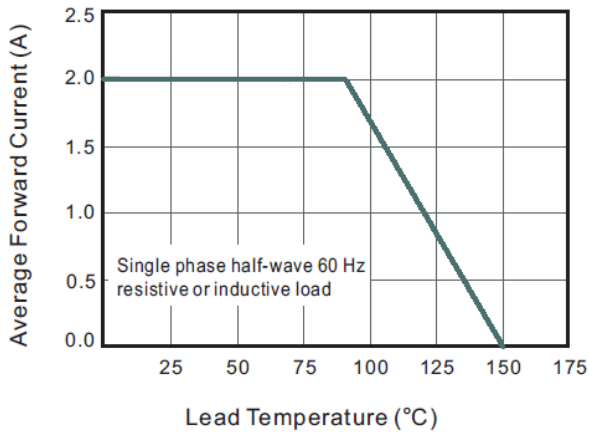


Fig.2 Typical Reverse Characteristics

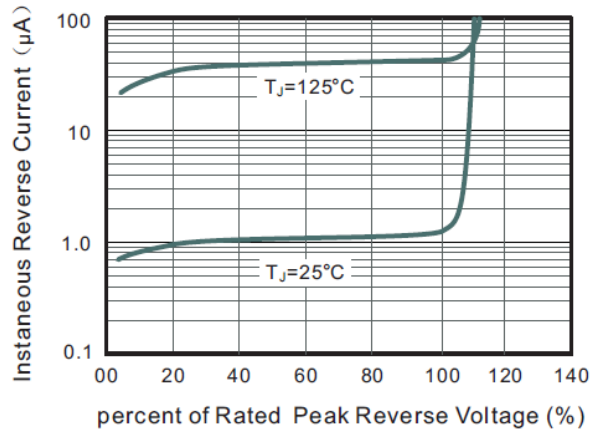


Fig.3 Typical Instantaneous Forward Characteristics

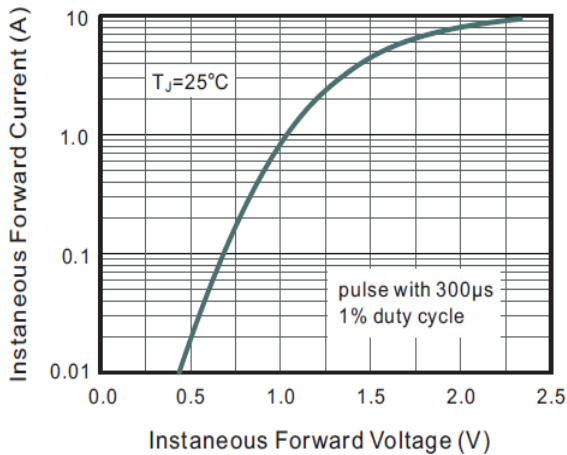


Fig.4 Typical Junction Capacitance

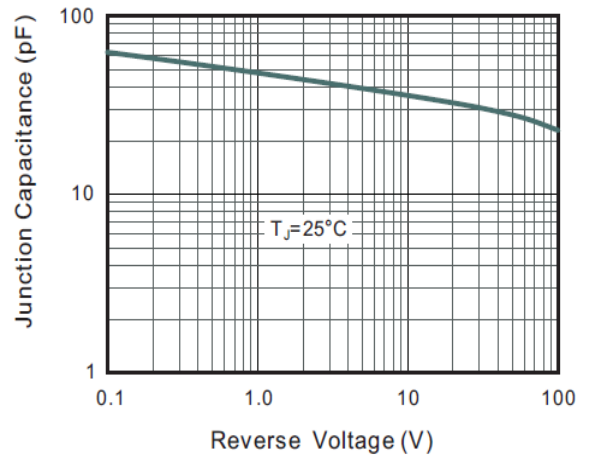


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

