Elektronische Bauelemente

SMF201AM~SMF207AM

Voltage 50 ~ 1000 V

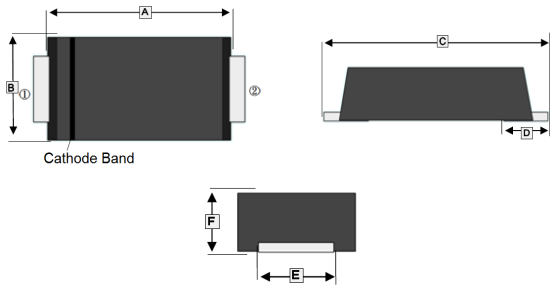
2.0 Amp Fast Recovery Rectifiers

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

FEATURES

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

SMAM



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

MECHANICAL DATA

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

MARKING

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

PACKAGE INFORMATION

Package	MPQ	Leader Size
SMAM	3K	7 inch

ABSOLUTE MAXIMUM RATINGS

(Rating 25℃ ambient temperature unless otherwise s pecified. 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℃		V_F	1.3							V
Maximum DC Reverse Current at Rated DC Blocking Voltage	T_A=25℃	I_R	5							μA
	T_A=125℃		100							
Maximum Reverse Recovery Time [1]		T_{RR}	150				250	500		nS
Typical Junction Capacitance[3]		C_J	40							pF
Typical Thermal Resistance [2]		$R_{\theta JL}$	22							℃/W
Typical Thermal Resistance [2]		$R_{\theta JC}$	30							℃/W
Operating & Storage Temperature		T_J,T_{STG}	-55~ 150							℃

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

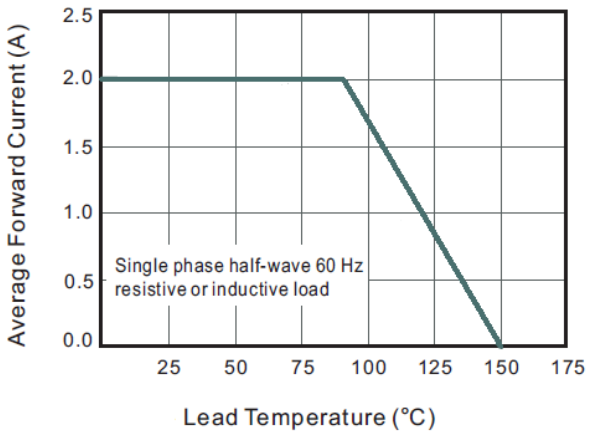


Fig.2 Typical Reverse Characteristics

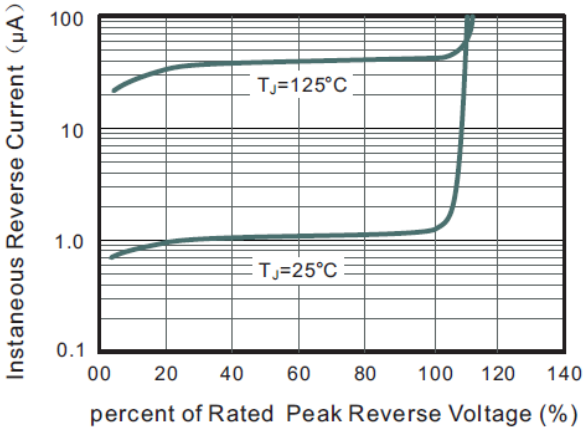


Fig.3 Typical Instaneous Forward Characteristics

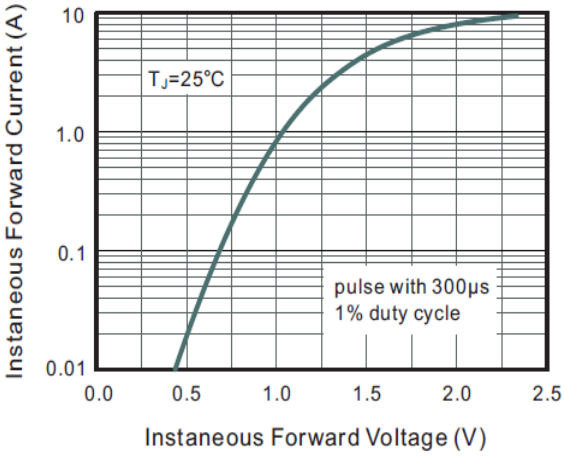


Fig.4 Typical Junction Capacitance

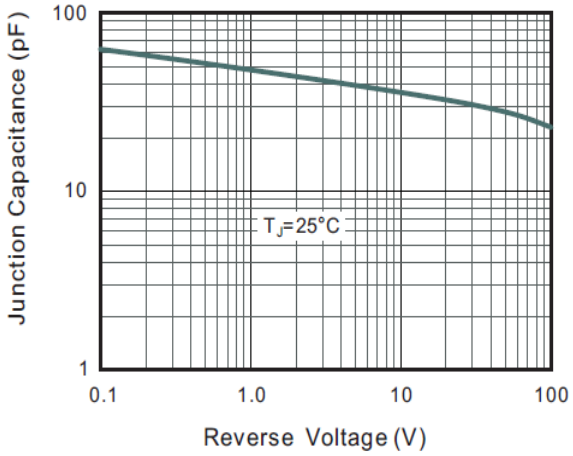


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

