

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

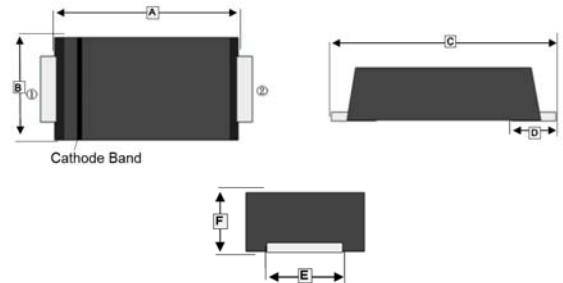
FEATURES

- Low profile package
- Glass Passivated Chip Junction
- Low reverse current
- 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
SEF101AM	US1A	SEF105AM	US1J
SEF102AM	US1B	SEF106AM	US1K
SEF103AM	US1D	SEF107AM	US1M
SEF104AM	US1G		

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	1.20

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
		SEF 101AM	SEF 102AM	SEF 103AM	SEF 104AM	SEF 105AM	SEF 106AM	SEF 107AM	
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	1							A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	30							A
Maximum Instantaneous Forward Voltage $I_F=1A @ 25^\circ C$	V_F	1.0		1.4	1.7			V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	$T_A=25^\circ C$	5							μA
	$T_A=125^\circ C$	100							
Maximum Reverse Recovery Time ¹	T_{RR}	50				75			nS
Typical Thermal Resistance ²	$R_{\theta JL}$	22							$^\circ C/W$
Typical Thermal Resistance ²	$R_{\theta JC}$	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.

RATINGS AND CHARACTERISTIC CURVES

Fig.1 Forward Current Derating Curve

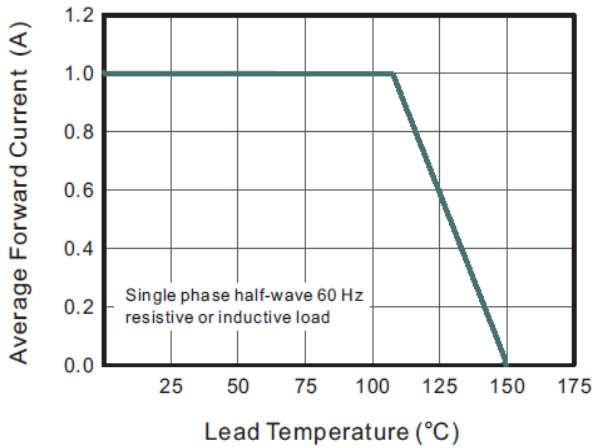


Fig.2 Typical Reverse Characteristics

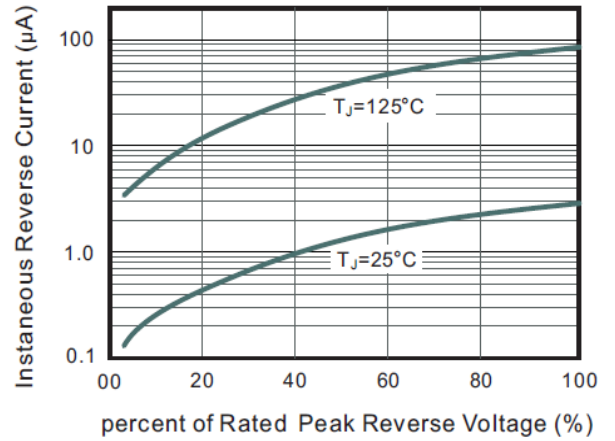


Fig.3 Typical Instantaneous Forward Characteristics

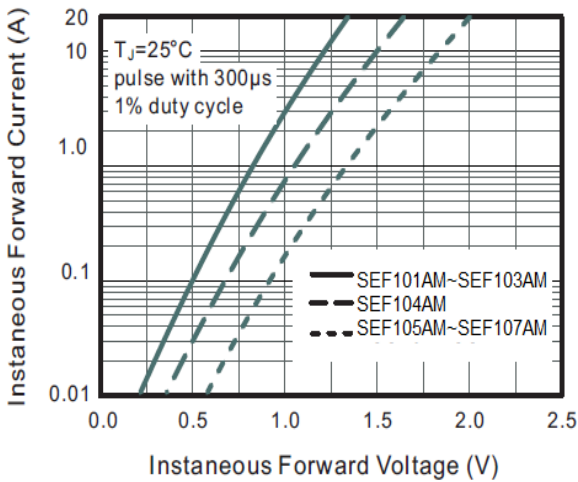


Fig.4 Maximum Non-Repetitive Peak Forward Surge Current

