

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

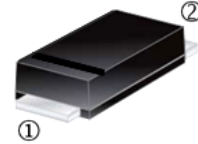
FEATURES

- 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

SMAM

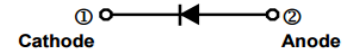


PACKAGE INFORMATION

Package	MPQ	Leader Size
SMAM	3K	7 inch

ORDER INFORMATION

Part Number	Type
SEF101AM-C~SEF107AM-C	Lead (Pb)-free and Halogen-free



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
		SEF101 AM-C	SEF102 AM-C	SEF103 AM-C	SEF104 AM-C	SEF105 AM-C	SEF106 AM-C	SEF107 AM-C	
Marking		US1A	US1B	US1D	US1G	US1J	US1K	US1M	
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	
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	
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 @ $I_F=1A$	V_F	1		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							$^\circ C/W$
	$R_{\theta JC}$	30							
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

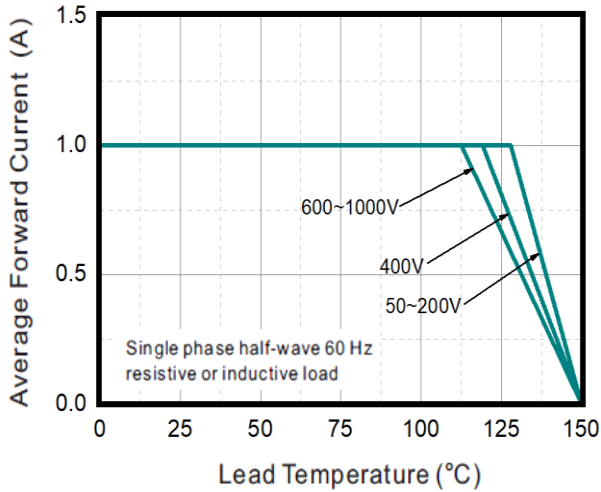


Fig.2 Typical Reverse Characteristics

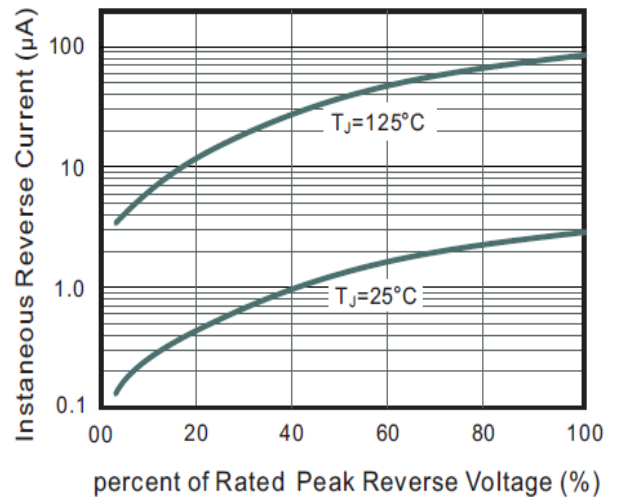


Fig.3 Typical Instantaneous Forward Characteristics

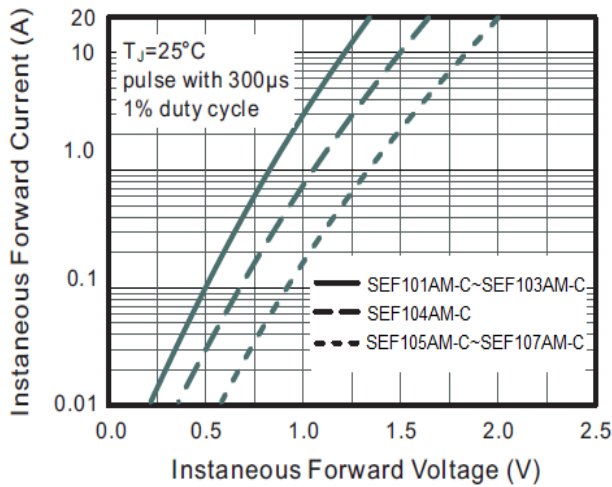
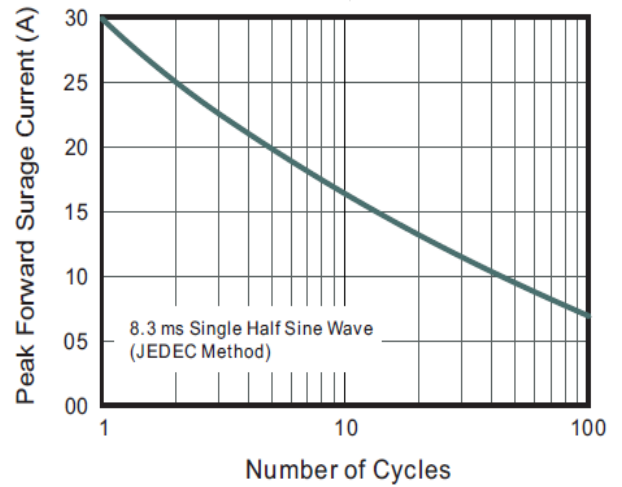
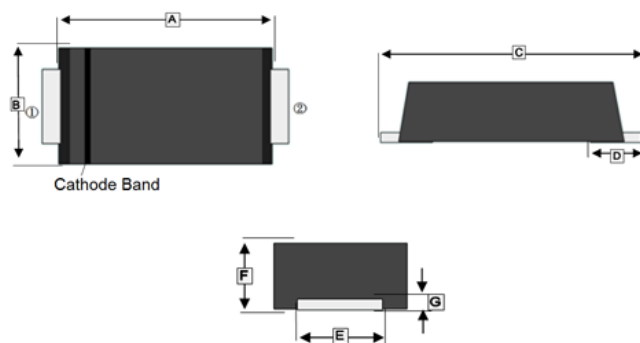


Fig.4 Maximum Non-Repetitive Peak Forward Surge Current



PACKAGE OUTLINE DIMENSIONS

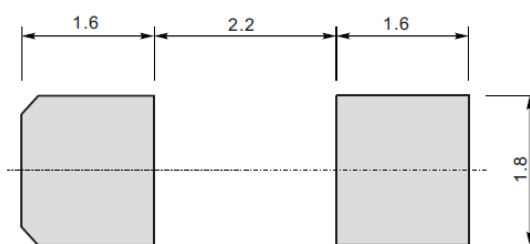
SMAM



REF.	Millimeter	
	Min.	Max.
A	3.20	3.70
B	2.40	2.80
C	4.40	4.90
D	1.00 TYP.	
E	1.30	1.60
F	0.90	1.25
G	0.10	0.20

MOUNTING PAD LAYOUT

SMAM



*Dimensions in millimeters