Elektronische Bauelemente

SEF301AM~SEF307AM

Voltage 50 ~ 1000 V

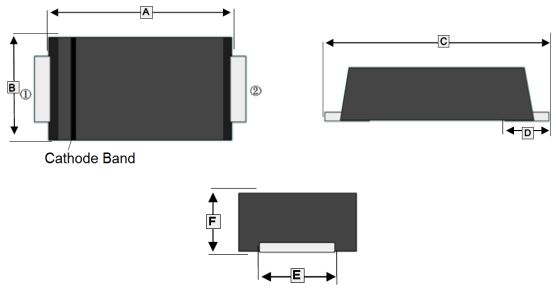
3.0 Amp High Efficiency Recovery Rectifiers

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

FEATURES

- Low profile package
- Glass Passivated Chip Juntion
- Low reverse current
- 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
SEF301AM	US3A	SEF305AM	US3J
SEF302AM	US3B	SEF306AM	US3K
SEF303AM	US3D	SEF307AM	US3M
SEF304AM	US3G		

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
			SEF 301AM	SEF 302AM	SEF 303AM	SEF 304AM	SEF 305AM	SEF 306AM	SEF 307AM	
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	3							A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load		I_{FSM}	100							A
Maximum Instantaneous Forward Voltage I_F=3A @ 25℃		V_F	1.0			1.4	1.7			V
Maximum DC Reverse Current at Rated DC Blocking Voltage	T_A=25℃	I_R	5							μA
	T_A=125℃		300							
Maximum Reverse Recovery Time [1]		T_{RR}	50				100			nS
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.

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RATINGS AND CHARACTERISTIC CURVES

Fig.1 Forward Current Derating Curve

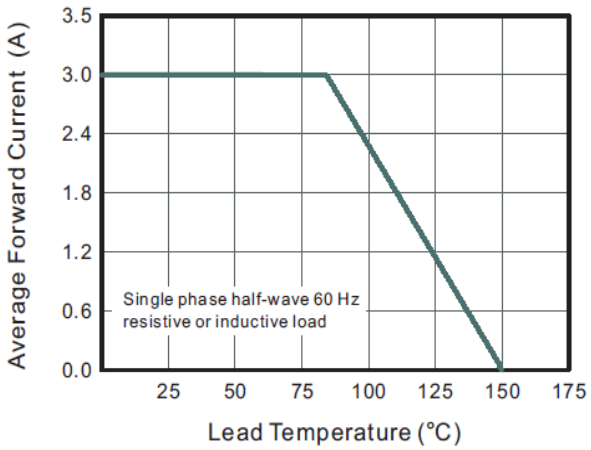


Fig.2 Typical Reverse Characteristics

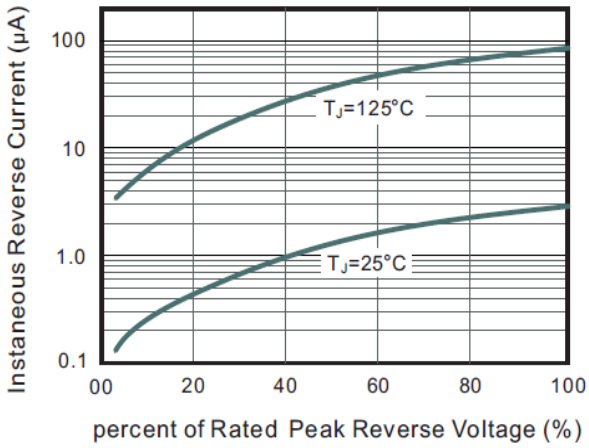


Fig.3 Typical Instaneous Forward Characteristics

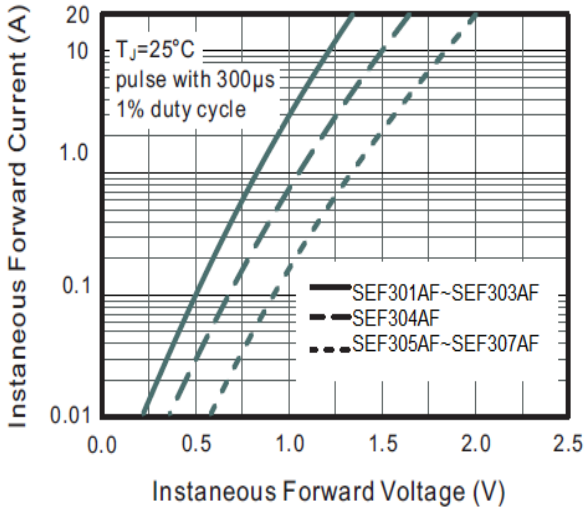


Fig.4 Maximum Non-Repetitive Peak Forward Surage Current

