

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

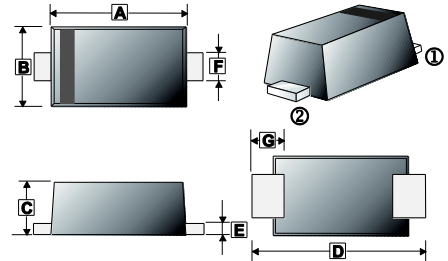
FEATURES

- Low Forward Surge Current
- Ideal For Surface Mounted Applications
- Low Leakage Current

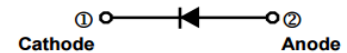
MECHANICAL DATA

- Case: JEDEC SOD-123JD
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Color Band Denotes Cathode End

SOD-123JD



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.60	2.90	E	0.10	0.20
B	1.70	1.90	F	0.80	1.10
C	0.90	1.10	G	0.70	0.90
D	3.50	3.80			



MARKING

Part Number	Marking Code	Part Number	Marking Code
SEF101JD-C	USL	SEF105JD-C	USH
SEF102JD-C		SEF106JD-C	
SEF103JD-C		SEF107JD-C	
SEF104JD-C	USM		

PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-123JD	3K	7 inch

ORDER INFORMATION

Part Number	Type
SEF101JD-C~SEF107JD-C	Lead (Pb)-free and Halogen-free

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(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 JD-C	SEF102 JD-C	SEF103 JD-C	SEF104 JD-C	SEF105 JD-C	SEF106 JD-C	SEF107 JD-C	
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}	25							A
Maximum Instantaneous Forward Voltage $I_F=1A @25^\circ C$	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	$R_{\theta JL}$	20							$^\circ C/W$
	$R_{\theta JC}$	40							
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.

CHARACTERISTIC CURVES

Fig.1 Forward Current Derating Curve

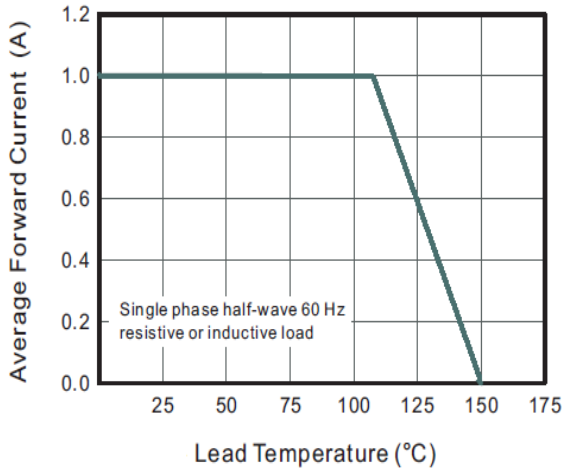


Fig.2 Typical Reverse Characteristics

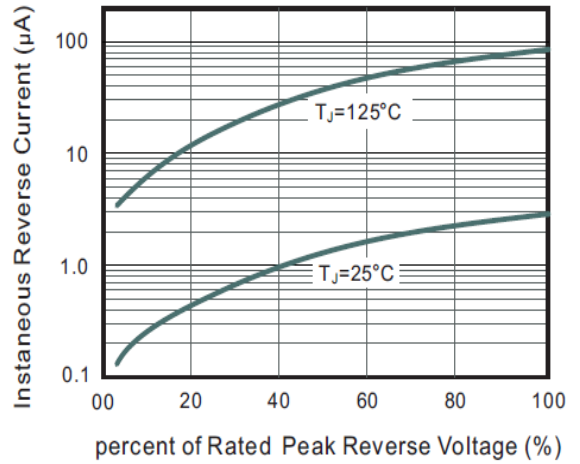


Fig.3 Typical Instantaneous Forward Characteristics

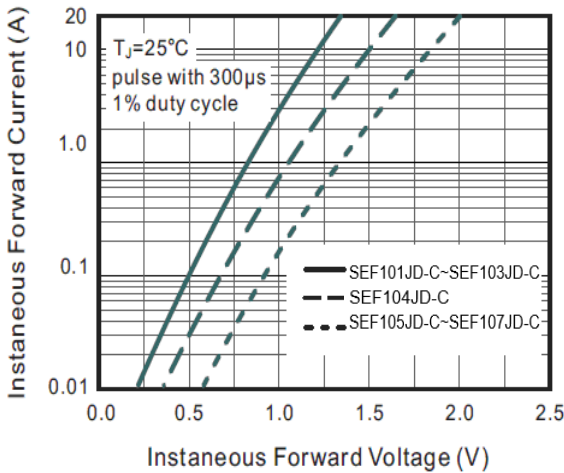


Fig.4 Maximum Non-Repetitive Peak Forward Surge Current

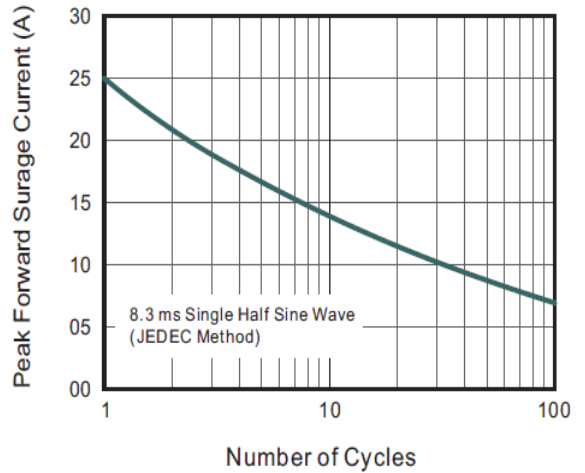
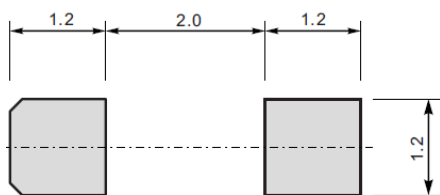


Fig.5 Mounting Pad Layout



*Dimensions in millimeters