

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

FEATURES

- Low forward surge current
- Ideal for surface mounted applications
- Low leakage current

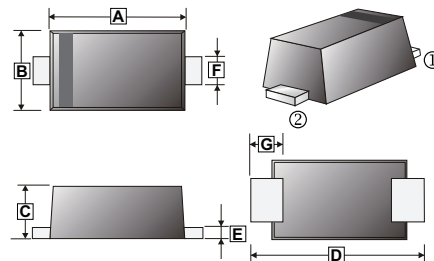
MECHANICAL DATA

- Case: JEDEC SOD-123JD
- Terminals: Solder Plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end

MARKING

Part Number	Marking Code	Part Number	Marking Code
SEF201JD	U2L	SEF205JD	U2H
SEF202JD		SEF206JD	
SEF203JD		SEF207JD	
SEF204JD	U2M		

SOD-123JD



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.6	2.9	E	0.1	0.2
B	1.7	1.9	F	0.8	1.1
C	0.9	1.1	G	0.7	0.9
D	3.5	3.8			

PACKAGE INFORMATION

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

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
		SEF 201JD	SEF 202JD	SEF 203JD	SEF 204JD	SEF 205JD	SEF 206JD	SEF 207JD	
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 $I_F=2A @ 25^\circ C$	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
	$T_A=100^\circ C$	50							
Maximum Reverse Recovery Time ¹	T_{RR}	50			75				nS
Typical Junction Capacitance ³	C_J	25							pF
Typical Thermal Resistance ²	$R_{\theta JL}$	20							$^\circ C/W$
Typical Thermal Resistance ²	$R_{\theta JC}$	40							$^\circ C/W$
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.
3. Measured at 1.0MHZ and applied reverse voltage of 4.0V DC

CHARACTERISTIC CURVES

Fig.1 Maximum Average Forward Current Rating

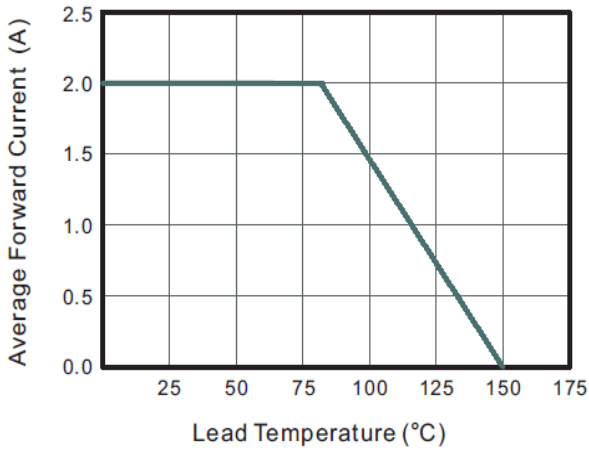


Fig.2 Typical Reverse Characteristics

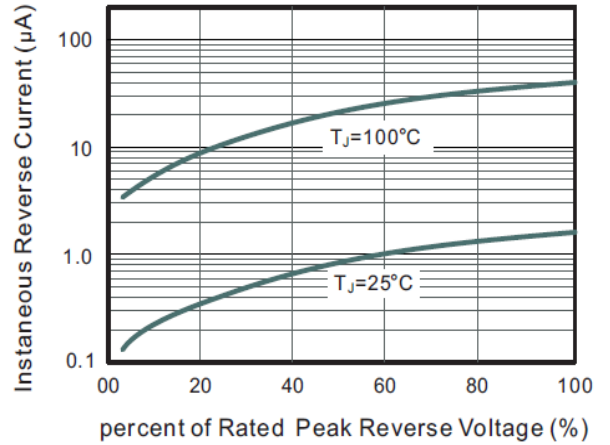


Fig.3 Typical Instantaneous Forward Characteristics

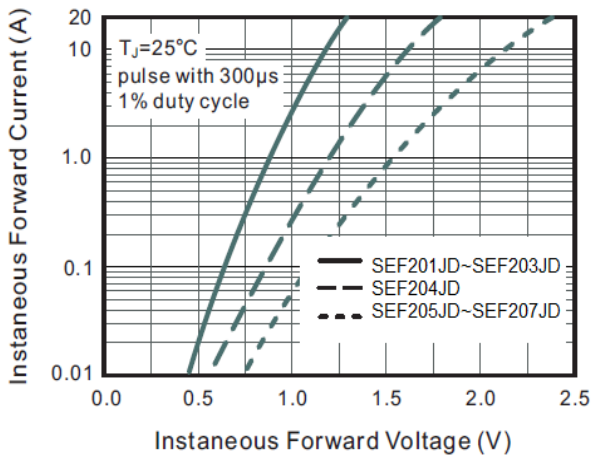


Fig.4 Maximum Non-Repetitive Peak Forward Surge Current

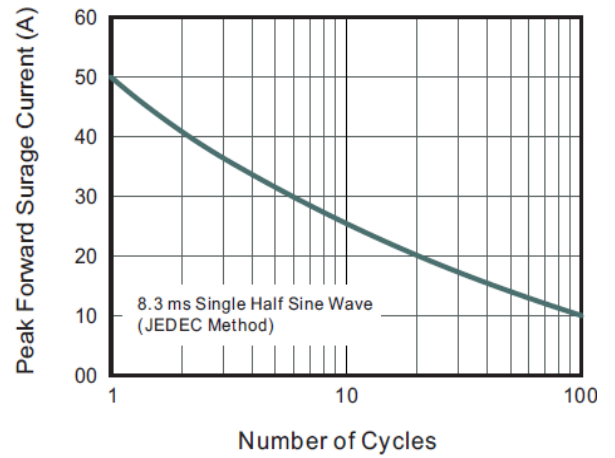


Fig.5 Typical Junction Capacitance

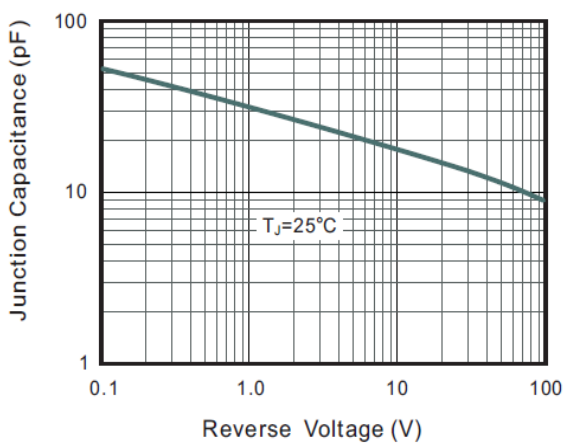


Fig.6 Typical Transient Thermal Impedance

