

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

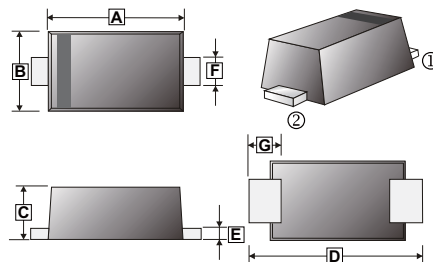
MARKING

ESL

PACKAGE INFORMATION

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

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			

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%.)

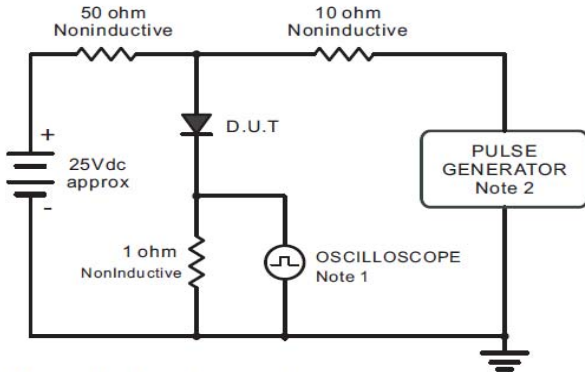
Parameter	Symbol	Rating	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	200	V
Maximum RMS Voltage	V_{RMS}	140	V
Maximum DC Blocking Voltage	V_{DC}	200	V
Maximum Average Forward Rectified Current	I_F	1	A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	35	A
Maximum Instantaneous Forward Voltage @ $I_F=1.1A$	V_F	0.97	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	$T_A=25^\circ C$	5
		$T_A=125^\circ C$	100
Maximum Reverse Recovery Time ¹	T_{RR}	35	nS
Typical Junction Capacitance ³	C_J	10	pF
Typical Thermal Resistance ²	$R_{\theta JL}$	20	°C/W
Typical Thermal Resistance ²	$R_{\theta JC}$	40	°C/W
Operating & Storage Temperature	T_J, T_{STG}	-55~ 150	°C

Notes :

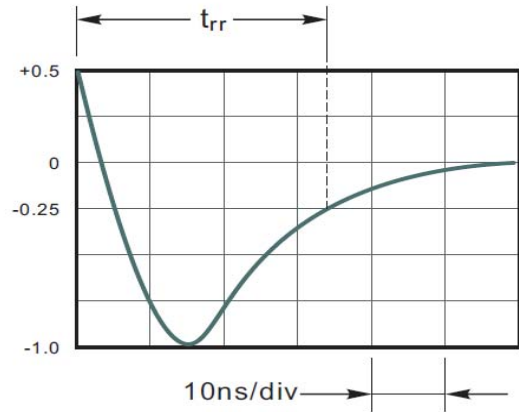
1. Measured with $I_F=0.5A, I_R=1A, I_{RR}=0.25A$
2. P.C.B. mounted with 10 X 10 x 0.2 mm copper pad areas.
3. Measured at 1 MHz and applied reverse voltage of 4 V D.C

CHARACTERISTIC CURVES

Fig.1 Reverse Recovery Time Characteristic And Test Circuit Diagram



Note: 1. Rise Time = 7ns, max.
Input Impedance = 1megohm, 22pF.
2. Rise Time = 10ns, max.
Source Impedance = 50 ohms.



Set time Base for 10ns/div

Fig.2 Maximum Average Forward Current Rating

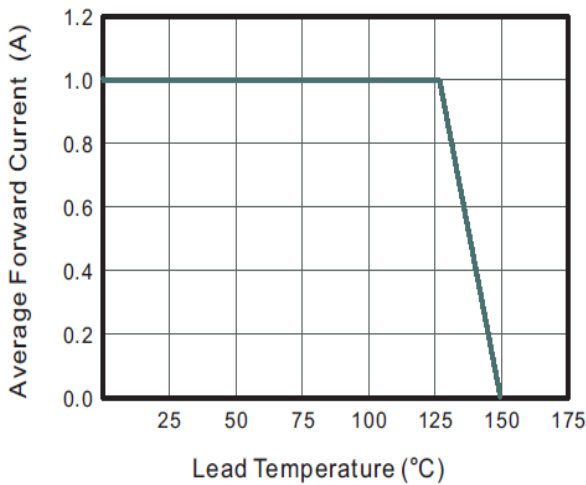


Fig.3 Typical Reverse Characteristics

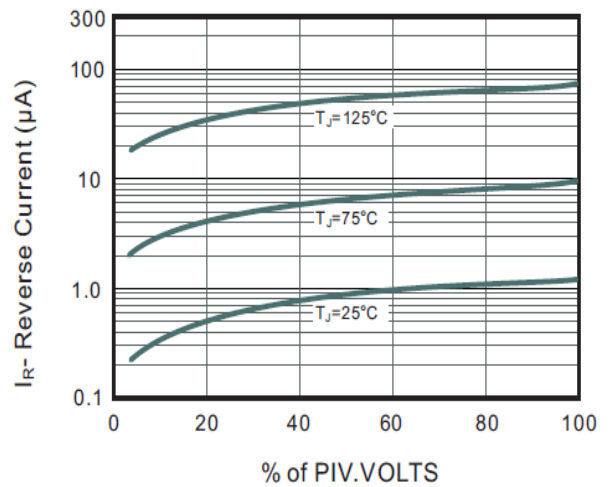


Fig.4 Typical Forward Characteristics

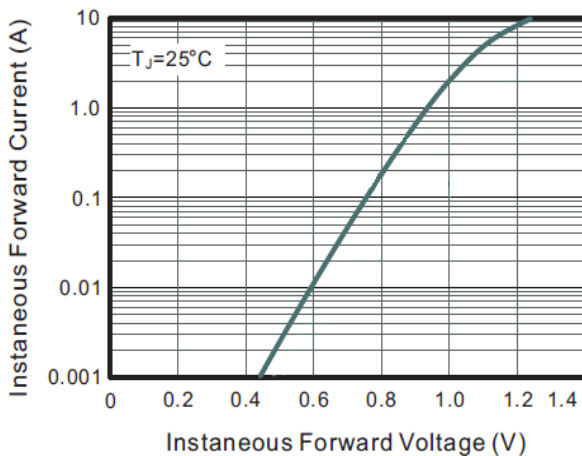


Fig.5 Typical Junction Capacitance

