

Schottky Barrier Rectifier 1A 60V SOD-123T

SLD16T

MERITEK

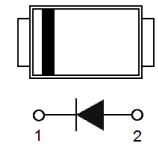
FEATURES

- Low Power Loss, Higher Efficiency
- Low Forward Voltage Drop



MECHANICAL DATA

- Case: Molded Plastic, SOD-123T Package
- Terminals: Solder plated, solderable per MIL-STD-750, method 2026
- Polarity: Color Band Denotes Cathode End



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

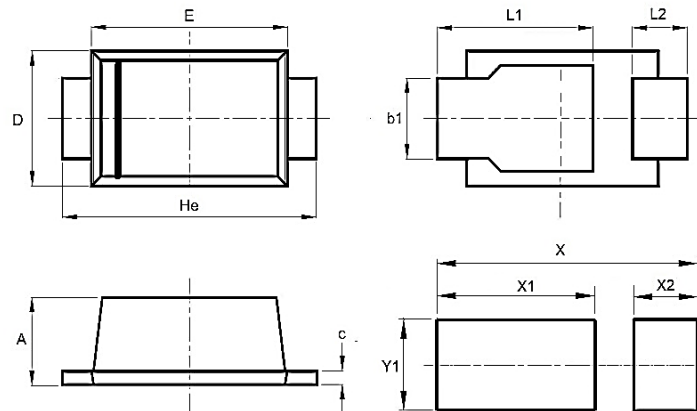
Parameter	Symbol	Value	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	60	V
Maximum RMS Voltage	V_{RMS}	42	V
Maximum DC Blocking Voltage	V_{DC}	60	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	1.0	A
Peak Forward Surge Current, 8.3ms single half sine wave	I_{FSM}	50	A
Maximum Forward Voltage	$I_F=1A, T_J=25^\circ C$ V_F	0.65	V
Maximum Reverse Current	$V_R=60V, T_J=25^\circ C$ I_R	0.5	mA
	$V_R=60V, T_J=100^\circ C$	10	
Typical Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	75	$^\circ C/W$
Operating Junction Temperature and Storage Temperature Range	T_J, T_{STG}	-55 to +150	$^\circ C$

Note:

1. Ratings at 25°C ambient temperature unless otherwise specified.
2. Single phase, half wave, 60Hz, resistive or inductive load.
3. For capacitive load, derate current by 20%.
4. Device mounted on FR-4 substrate PC board, 2oz copper, with 1-inch square copper plate.

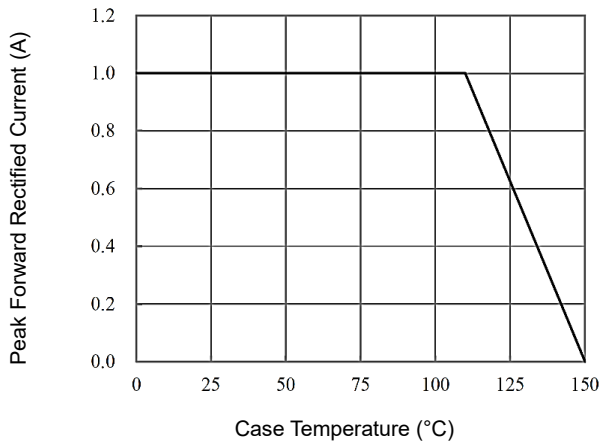
DIMENSIONS

SOD-123T	Min (mm)	Max (mm)
A	0.88	1.08
b1	0.80	1.10
C	0.10	0.20
D	1.70	1.90
E	2.60	2.90
He	3.50	3.90
L1	1.90	2.30
L2	0.55	0.75
X	4.10	
X1	2.20	
X2	0.90	
Y1	1.40	

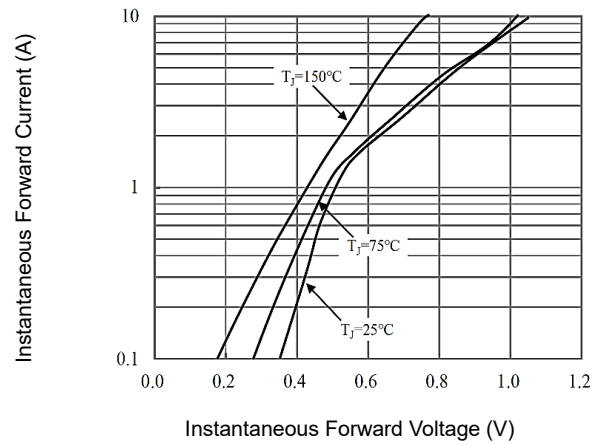


CHARACTERISTIC CURVES

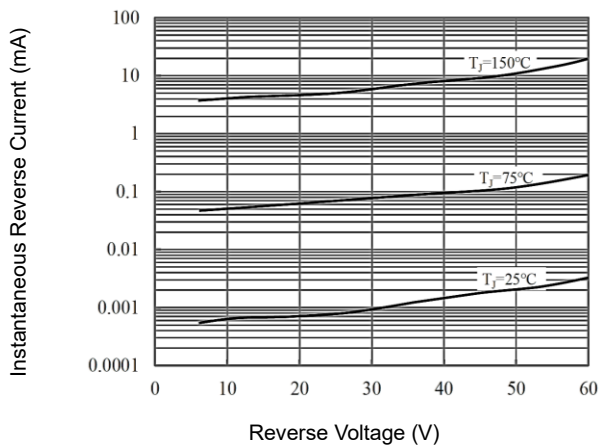
Typical Forward Current Derating Curve



Typical Instantaneous Forward Characteristics



Typical Reverse Characteristics



Capacitance

