Elektronische Bauelemente

SK240LHT

40V, 2A

Surface Mount Schottky Barrier Rectifiers

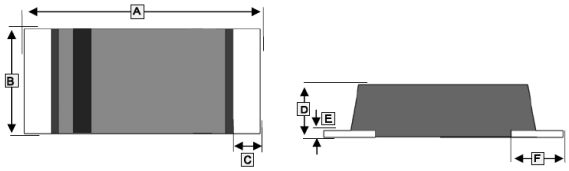
RoHS Compliant Product

A suffix of "-C" specifies halogen-free and RoHS Compliant

FEATURES

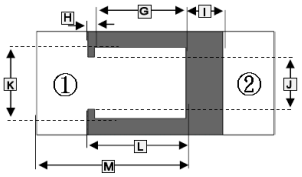
- High current density
- Low power losses
- High efficiency
- Low forward voltage drop

SOD-123HT



MARKING

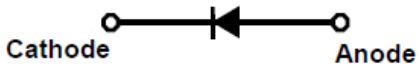
L24



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	3.3	3.7	H	0.6 TYP.	
B	1.4	1.8	I	0.6	0.8
C	0.3 TYP.		J	0.75	0.85
D	0.6	1.0	K	1.0	1.2
E	0.1 TYP.		L	1.1	1.3
F	0.8 TYP.		M	2.0 TYP.	
G	1.0	1.2			

PACKAGE INFORMATION

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



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise specified)

Parameter	Symbol	Rating	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	40	V
Maximum RMS Voltage	V_{RMS}	28	V
Maximum Continuous Reverse Voltage	V_R	40	V
Maximum Average Forward Rectified Current@ see fig.2	I_O	2	A
Non-Repetitive Peak Forward Surge Current@ 8.3 ms single half sine-wave (JEDEC method)	I_{FSM}	50	A
Maximum Instantaneous Forward Voltage@ I_F=2A	V_F	0.4	V
Maximum Reverse Leakage Current at Rated V_R@ V_R= V_{RRM}, T_J=25°C	I_R	1	mA
Typical Thermal Resistance from Junction to Lead [1]	$R_{\theta JL}$	31	°C / W
Typical Junction Capacitance@ f=1MHz, 4V DC reverse voltage	C_J	160	pF
Operating Junction and Storage Temperature	T_J, T_{STG}	100, -65~175	°C

Notes:

1. The device is mounted on a FR-4 PCB with a recommended minimum copper pad.

CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CHARACTERISTICS

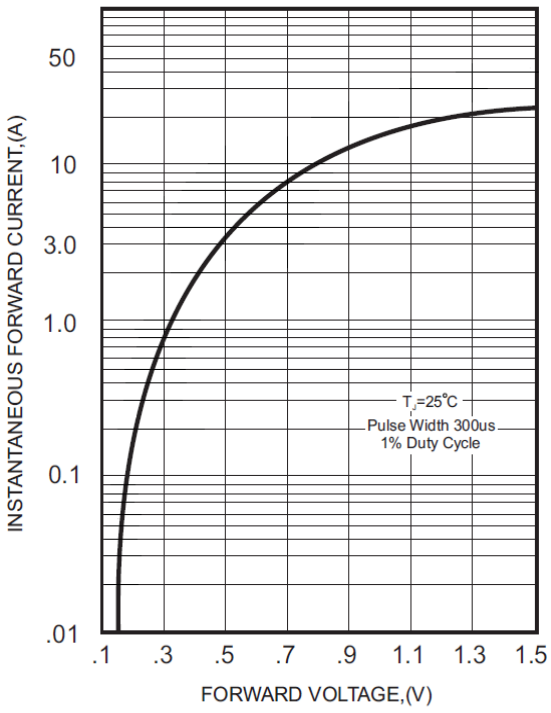


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

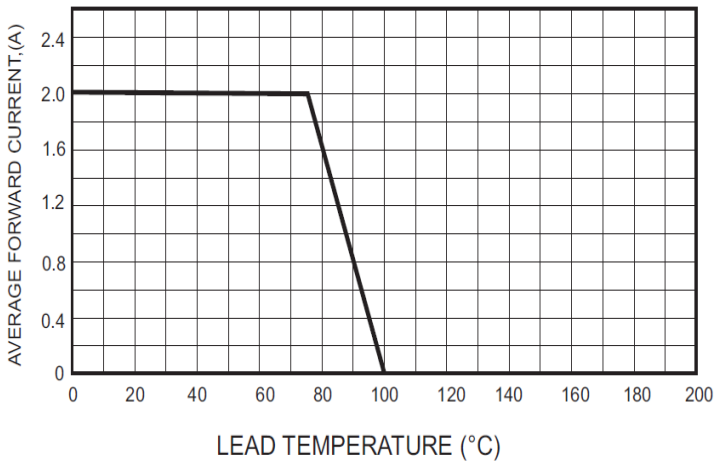


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

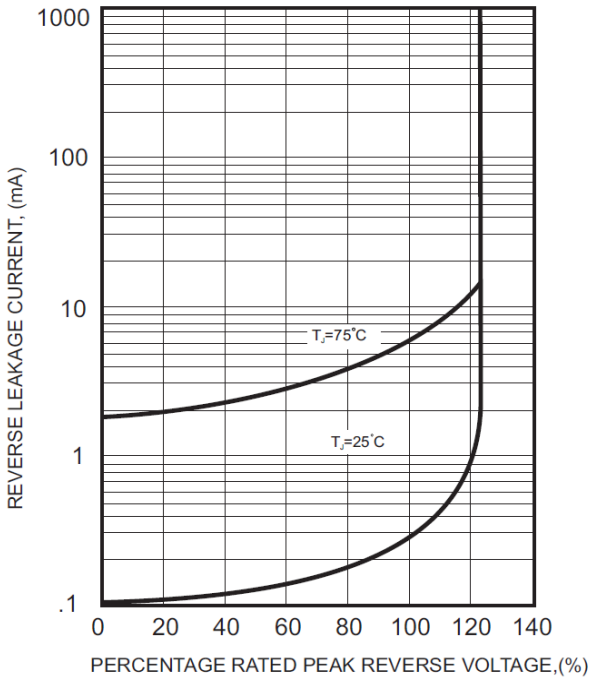


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

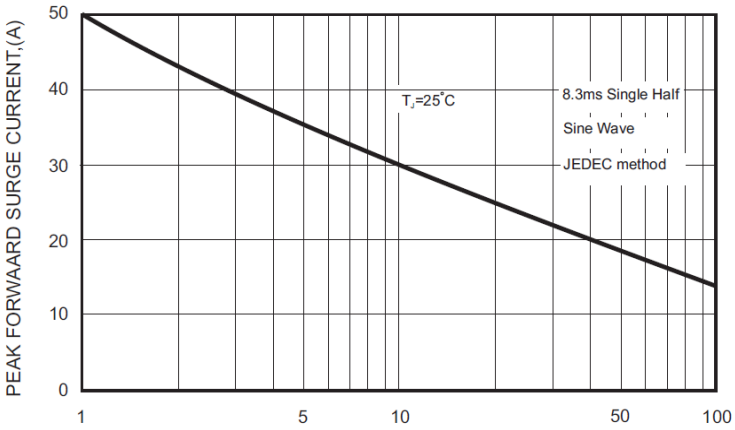


FIG.5-TYPICAL JUNCTION CAPACITANCE