

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

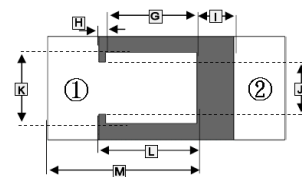
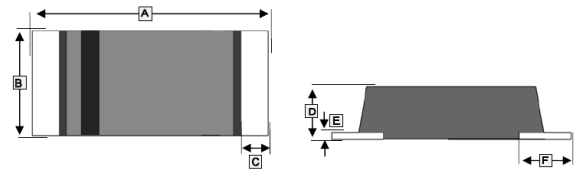
MARKING

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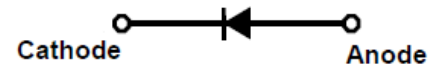
PACKAGE INFORMATION

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

SOD-123HT



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			



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

Parameter	Symbol	Rating	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	20	V
Maximum RMS Voltage	V _{RMS}	14	V
Maximum Continuous Reverse Voltage	V _R	20	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	0.38	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 _{θJL}	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

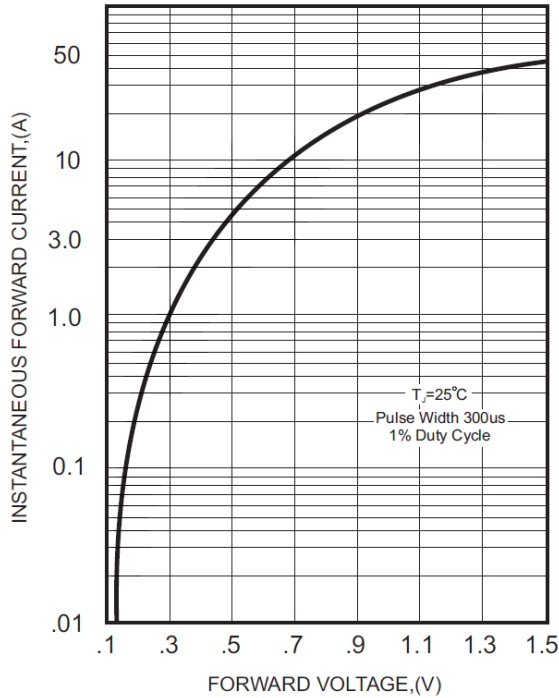


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

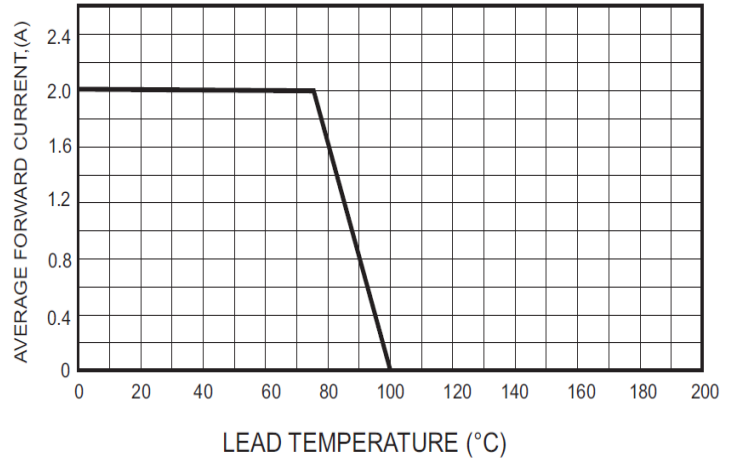


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

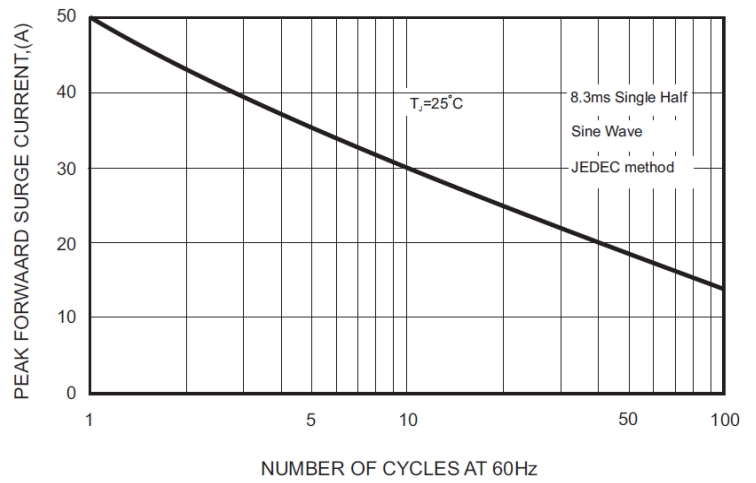


FIG.3 - TYPICAL REVERSE

CHARACTERISTICS

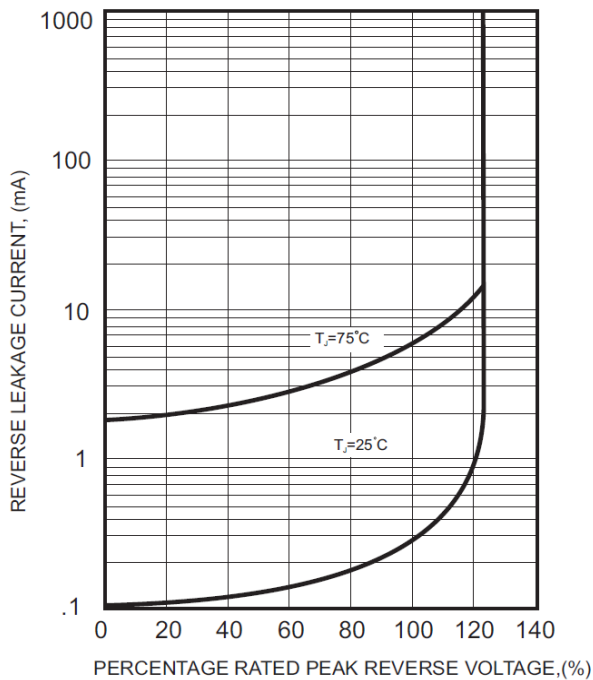


FIG.5-TYPICAL JUNCTION CAPACITANCE

