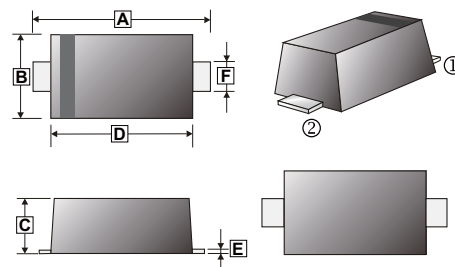


RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Fast Switching Device ($T_{RR} < 4.0 \text{ nS}$)
- General Purpose Diodes
- Flat Lead SOD-123 Small Outline Plastic Package
- Surface Device Type Mounting
- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish
- Band Indicates Cathode

SOD-123LH



MARKING

D1

REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	3.30	3.70	D	2.50	2.70
B	1.50	1.70	E	0.05	0.20
C	0.80	1.00	F	0.50	0.70

ABSOLUTE MAXIMUM RATINGS (at $T_A = 25^\circ\text{C}$ unless otherwise specified.)

Parameter	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	V_{RSM}	100	V
Repetitive Peak Reverse Voltage	V_{RRM}	75	V
Repetitive Peak Forward Current	I_{FRM}	300	mA
Continuous Forward Current	I_O	150	mA
Power Dissipation	P_D	400	mW
Operating Temperature, Storage Temperature	T_J, T_{STG}	150, -65 ~ 150	$^\circ\text{C}$

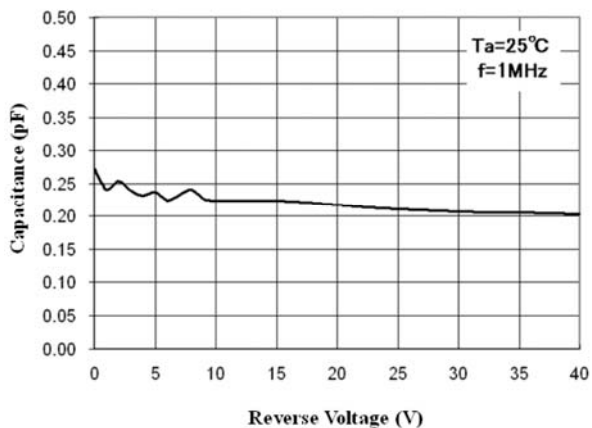
These ratings are limiting values above which the serviceability of the diode may be impaired.

ELECTRICAL CHARACTERISTICS (at $T_a = 25^\circ\text{C}$ unless otherwise specified)

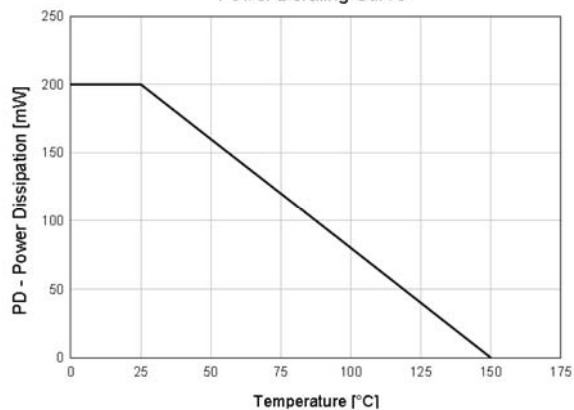
Parameters	Symbol	Min.	Max.	Unit	Test Conditions
Breakdown Voltage	B_V	100	-	V	$I_R = 100\mu\text{A}$
		75	-		$I_R = 5\mu\text{A}$
Forward Voltage	V_F	-	1.0	V	$I_F = 10 \text{ mA}$
Reverse Leakage Current	I_R	-	25	nA	$V_R = 20\text{V}$
		-	5	μA	$V_R = 75\text{V}$
Capacitance	C	-	4.0	pF	$V_R = 0\text{V}, f = 1.0 \text{ MHz}$
Reverse Recovery Time	T_{RR}		4.0	nS	$I_F = 10\text{mA}, I_R = 60\text{mA}, I_{RR} = 1\text{mA}, R_L = 100 \Omega$

RATINGS AND CHARACTERISTIC CURVES (1N4148LW)

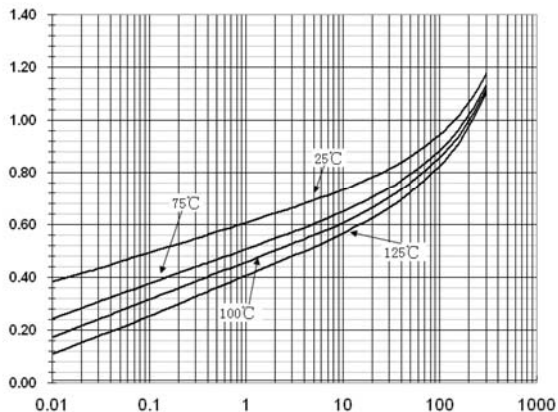
Total Capacitance



Power Derating Curve



Forward Voltage vs Ambient Temperature



Reverse Current vs Reverse Voltage

