

Features

- Halogen Free. "Green" Device (Note 1)
- AEC-Q101 Qualified
- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

- Operating Junction Temperature Range: -65°C to +150°C
- Storage Temperature Range: -65°C to +150°C
- Thermal Resistance: 312.5°C/W Junction To Ambient

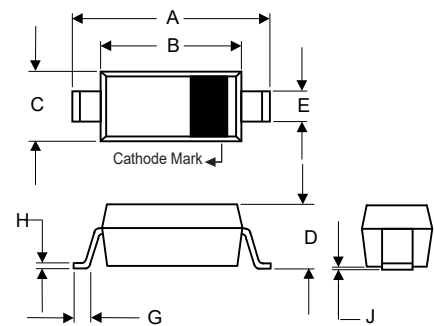
MCC Part Number	Device Marking
1N4148WHE3	T4

Parameter	Symbol	Value	
DC Reverse Voltage	V_R	100V	
Peak Repetitive Reverse Voltage	V_{RRM}	100V	
RMS Reverse Voltage	$V_{R(RMS)}$	71V	
Peak Forward Current	I_{FM}	300mA	
Average Rectified Current	I_o	150mA	
Peak Forward Surge Current	$t=1s$	I_{FSM}	1A
	$t=1\mu s$		2A
Power Dissipation	P_D	400mW	

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

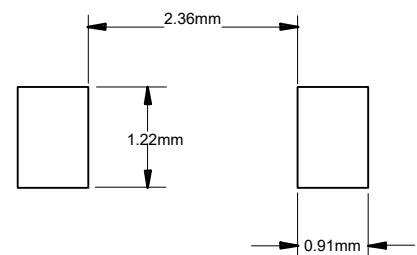
**400mW
High Speed
Switching Diode**

SOD-123



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.140	0.152	3.55	3.85	
B	0.100	0.112	2.55	2.85	
C	0.055	0.071	1.40	1.80	
D	----	0.053	----	1.35	
E	0.018	0.026	0.45	0.65	
G	0.006	----	0.15	----	
H	----	0.010	----	0.25	
J	----	0.006	----	0.15	

Suggested Solder Pad Layout



Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Forward Voltage	V_F	$I_F=1\text{mA}$			0.715	V
		$I_F=10\text{mA}$			0.855	V
		$I_F=50\text{mA}$			1	V
		$I_F=150\text{mA}$			1.25	V
Reverse Current	I_R	$V_R=75\text{V}$			1	μA
		$V_R=20\text{V}$			0.025	μA
		$V_R=75\text{V}, T_J=150^\circ\text{C}$			50	μA
Total Capacitance	C_T	$V_R = 0\text{V}, f = 1\text{MHz}$			2	pF
Reverse Recovery Time	t_{rr}	$I_F=I_R=10\text{mA},$ $I_{rr}=0.1*I_R, R_L=100\Omega$			4	ns

Curve Characteristics

Fig. 1 - Typical Instantaneous Forward Characteristics

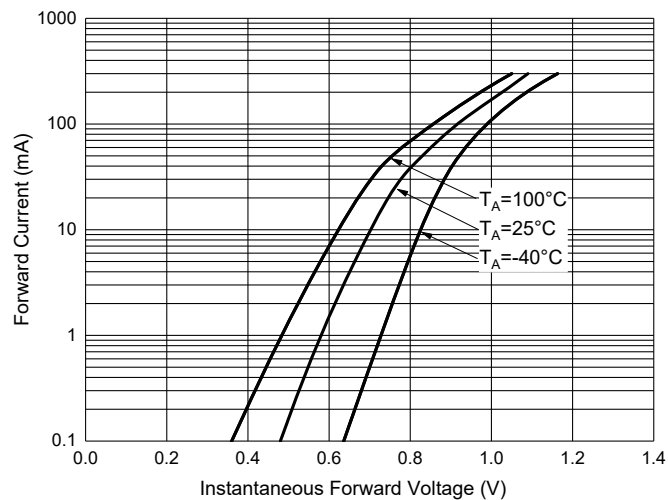


Fig. 2 - Typical Reverse Leakage Characteristics

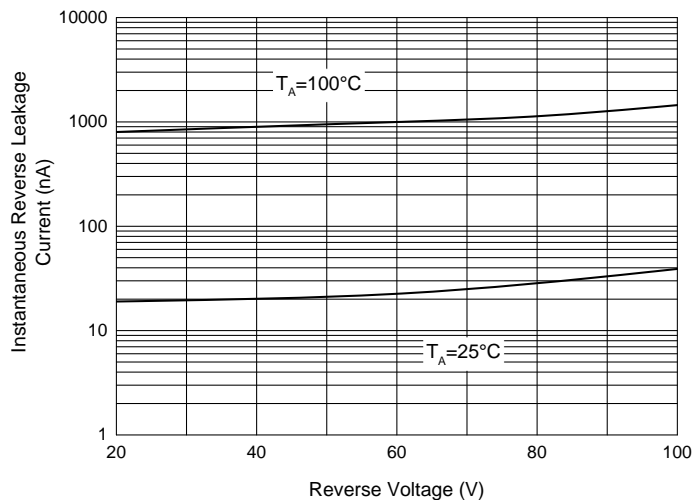
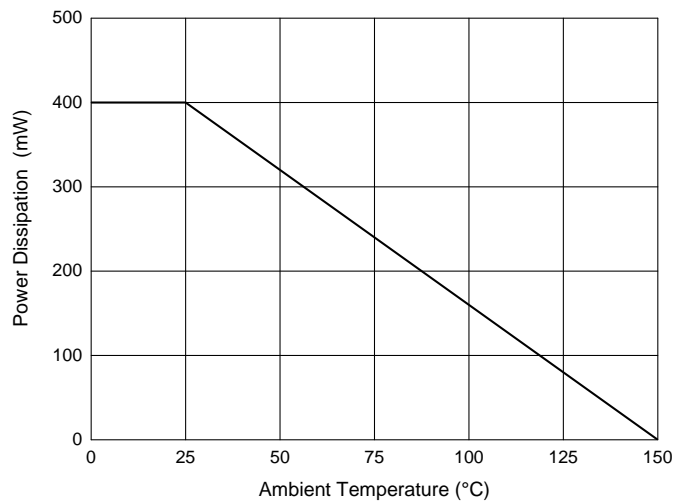


Fig. 3 - Power Derating Curve



Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

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