

Features

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

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 200°C/W Junction to Ambient

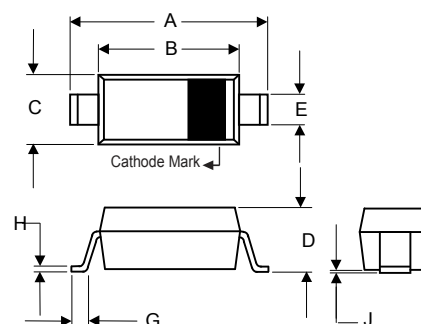
MCC Part Number	Device Marking
1N4448W	T5

Parameter	Symbol	Value
DC Reverse Voltage	V_R	100V
Peak Repetitive Reverse Voltage	V_{RRM}	100V
Working Peak Reverse Voltage	V_{RWM}	100V
RMS Reverse Voltage	$V_{R(RMS)}$	71V
Average Rectified Current	$I_{F(AV)}$	250mA
Repetitive Peak Forward Current	I_{FRM}	700mA
Peak Forward Surge Current	I_{FSM}	2A
Power Dissipation	P_D	500mW

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

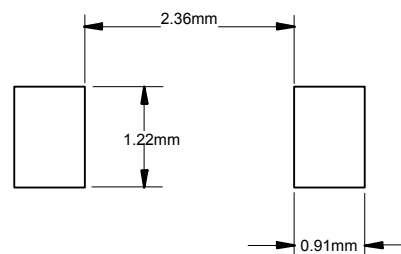
500mW, 100V Switching Diode

SOD-123



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	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
Reverse Breakdown Voltage	V_{BR}	$I_R=100\mu A$	100			V
Forward Voltage	V_F	$I_F=100mA$			1	V
Reverse Current	I_R	$V_R=20V$			25	nA
		$V_R=20V, T_J=150^\circ C$			50	μA
		$V_R=75V$			2.5	μA
Junction Capacitance	C_J	$V_R = 0V, f = 1MHz$			4	pF
Reverse Recovery Time	t_{rr}	$I_F=I_R=10mA,$ $I_{rr}=0.1 \times I_R, R_L=100\Omega$			4	ns

* Pulse Test: Pulse Width 300 μsec , Duty Cycle 2%

Curve Characteristics

Fig. 1 - Typical Instantaneous Forward Characteristics

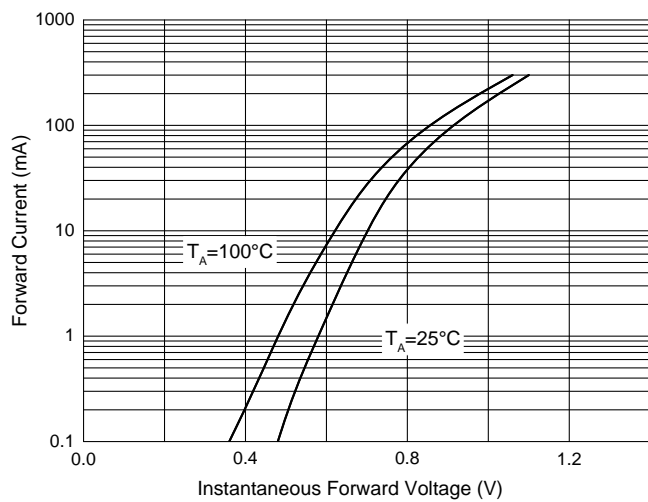


Fig. 2 - Typical Reverse Leakage Characteristics

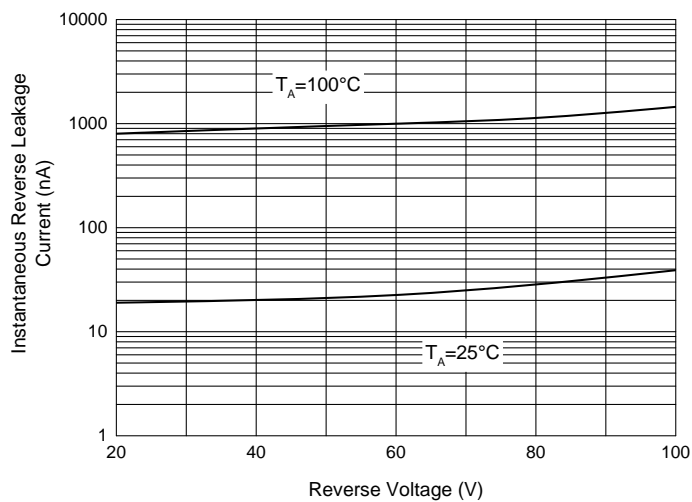
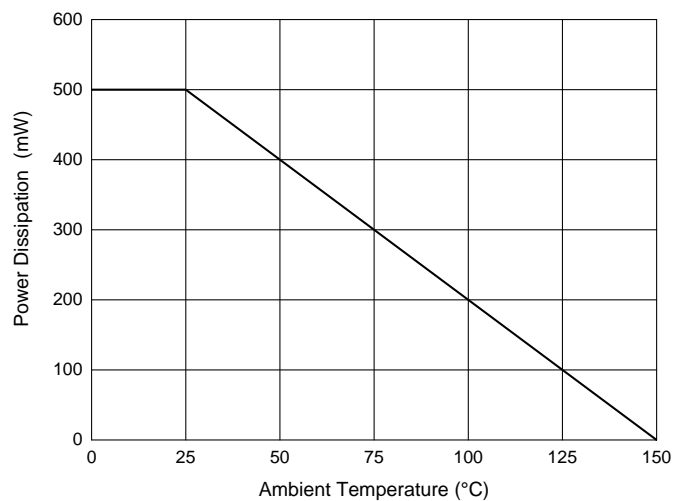


Fig. 3 - Power Derating Curve



Ordering Information

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

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