

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 Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

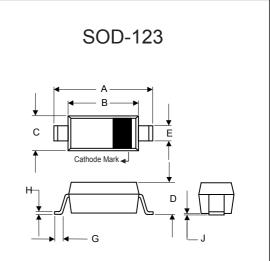
Maximum Ratings

- 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	Т5

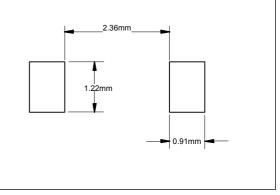
Parameter	Symbol	Value
DC Reverse Voltage	V _R	100V
Peak Repetitive Reverse Voltage	V _{RRM}	100V
Working Peak Reverse Voltage	V _{RWM}	100V
RMS Reverse Voltage	V _{R(RMS)}	71V
Average Rectified Current	I _{F(AV)}	250mA
Repetitive Peak Forward Current	I _{FRM}	700mA
Peak Forward Surge Current	I _{FSM}	2A
Power Dissipation	P _D	500mW

500mW,100V Switching Diode



	DIMENSIONS				
DIM	INCHES		MM		NOTE
Divi	MIN	MAX	MIN	MAX	NOTE
A	0.140	0.152	3.55	3.85	
В	0.100	0.112	2.55	2.85	
С	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		
Н		0.010		0.25	
J		0.006		0.15	

Suggested Solder Pad Layout





Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Breakdown Voltage	V _{BR}	I _R =100μA	100			V
Forward Voltage	V _F	I _F =100mA			1	V
		V _R =20V			25	nA
Reverse Current	I _R	V _R =20V, T _J =150°C			50	μA
		V _R =75V			2.5	μA
Junction Capacitance	CJ	$V_R = 0V, f = 1MHz$			4	pF
Reverse Recovery Time	t _{rr}	$I_F=I_R=10$ mA, $I_{rr}=0.1 \times I_R, R_L=100\Omega$			4	ns

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



Curve Characteristics

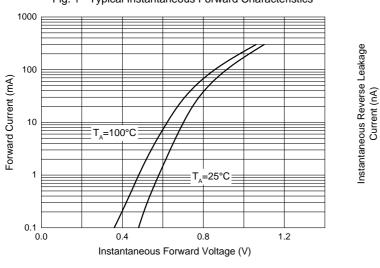


Fig. 1 - Typical Instantaneous Forward Characteristics

Fig. 2 - Typical Reverse Leakage Characteristics

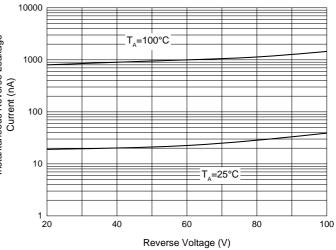
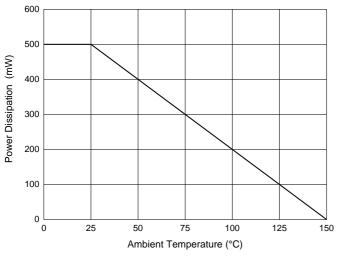


Fig. 3 - Power Derating Curve





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

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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