

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)

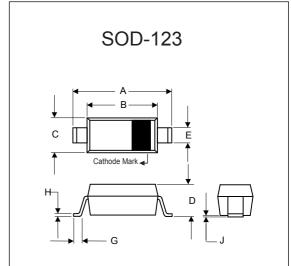
Maximum Ratings

- 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	T5

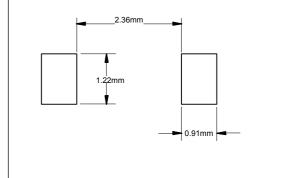
Parameter	Symbol	Value	
DC Reverse Voltage	V _R	100V	
Peak Repetitive Reverse Voltage	V_{RRM}	100V	
Working Peak Reverse Voltage	V_{RWM}	100V	
RMS Reverse Voltage	V _{R(RMS)}	71V	
Average Rectified Current	I _{F(AV)}	250mA	
Repetitive Peak Forward Current	I _{FRM}	700mA	
Peak Forward Surge Current	I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

500mW,100V Switching Diode



	DIMENSIONS				
DIM INCHE		HES	MM		NOTE
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	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





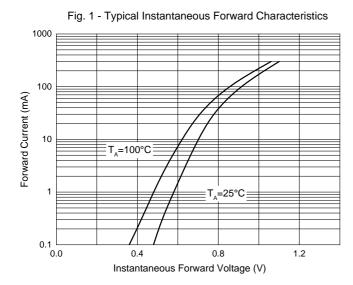
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

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}	$I_F=I_R=10\text{mA},$ $I_{rr}=0.1\times I_R, R_L=100\Omega$			4	ns

 $^{^{\}star}$ Pulse Test: Pulse Width 300 µsec, Duty Cycle 2%



Curve Characteristics



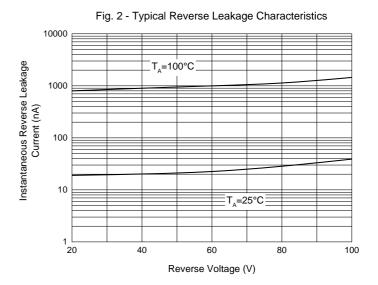


Fig. 3 - Power Derating Curve

600
500
400
400
100
0 25 50 75 100 125 150
Ambient Temperature (°C)



Ordering Information

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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