

1N4448W High Speed Switching Diode

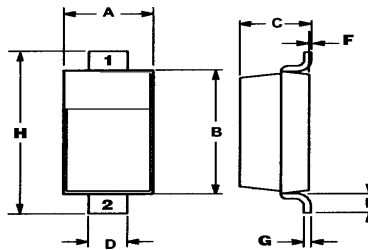
Description

Mechanical Dimensions

1N4448W



SOD-123



1. CATHODE 2. ANODE

DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.055	0.071	1.40	1.80
B	0.100	0.112	2.55	2.85
C	0.037	0.053	0.95	1.35
D	0.020	0.028	0.50	0.70
E	0.004		0.25	
F	0.000	0.004	0.00	0.10
G		0.006		0.15
H	0.140	0.152	3.55	3.85

Features

- SURFACE MOUNT PACKAGE
- MEETS UL SPECIFICATION 94V-0
- FAST SWITCHING DIODE
- ELECTRICALLY IDENTICAL TO JEDEC 1N4448

Electrical Characteristics @ 25°C.		Units
Maximum Ratings	1N4448W	
Peak Reverse Voltage... V_{RM}	100	Volts
RMS Reverse Voltage... $V_{R(rms)}$	75	Volts
Average Rectified Current... $I_{F(AV)}$	150	mAmps
Peak Forward Surge Current... I_{FSM}	500	mAmps
Power Dissipation... P_D	500	mW
Thermal Resistance... $R_{\theta JA}$	450	°C/W
Storage and Operating Temperature Range... $T_{STRG \& J}$	-65 to 150	°C
Electrical Characteristics $T_J = 25^\circ C$		
Forward Voltage... V_F @ $I_F = 10\text{ mA}$	1.0	Volts
DC Reverse Current... I_R @ $V_R = 20V$	25.0	nAmps
@ $V_R = 75V$	5.0	μAmps
$V_R = 20V, T_J = 150^\circ C$	50	μAmps
Typical Junction Capacitance... C_J	4	pF
Voltage Rise When switched ON (50 mA Pulses)	2.5	nS
Reverse Recovery Time... T_{RR}	4.0	nS
Rectification Efficiency... η_v	0.45 min	-

