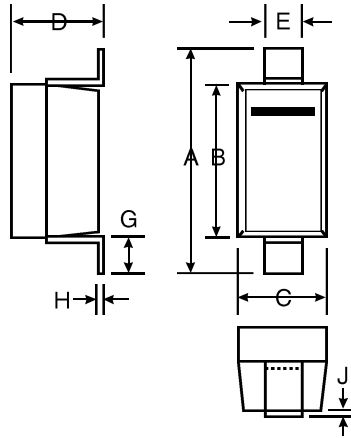


Features

Fast Switching Speed
 Surface Mount Package Ideally Suited for Automatic Insertion
 For General Purpose Switching Applications
 High Conductance

Mechanical Data

Case: SOD-123, Molded Plastic
 Terminals: Solderable per MIL-STD-202, Method 208
 Polarity: Cathode Band
 Marking: Date Code and Type Code or Date Code only
 Weight: 0.01 grams (approx.)



SOD-123		
Dim	Min	Max
A	3.55	3.85
B	2.55	2.85
C	1.40	1.70
D	—	1.35
E	0.55 Typical	
G	0.25	—
H	0.15 Typical	
J	—	0.10
All Dimensions in mm		

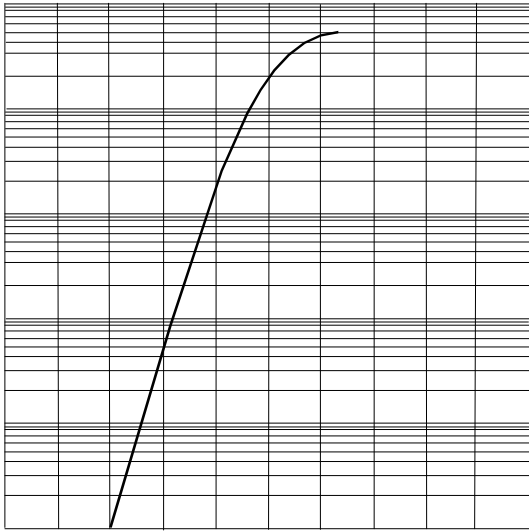
Maximum Ratings @ $T_A = 25\text{ C}$ unless otherwise specified

Characteristic	Symbol	1N4448W	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	100	V
Peak Repetitive Reverse Voltage	V_{RRM}	75	V
Working Peak Reverse Voltage	V_{RWM}		
DC Blocking Voltage	V_R		
RMS Reverse Voltage	$V_{R(RMS)}$	53	V
Forward Continuous Current (Note 1)	I_{FM}	500	mA
Average Rectified Output Current (Note 1)	I_O	250	mA
Non-Repetitive Peak Forward Surge Current @ $t = 1.0\text{ s}$ @ $t = 1.0\text{ s}$	I_{FSM}	4.0 2.0	A
Power Dissipation (Note 1)	P_d	350	mW
Thermal Resistance Junction to Ambient Air (Note 1)	R_{JA}	357	K/W
Operating and Storage Temperature Range	T_J, T_{STG}	-65 to +150	C

Electrical Characteristics @ $T_A = 25\text{ C}$ unless otherwise specified

Characteristic	Symbol	Min	Max	Unit	Test Condition
Maximum Forward Voltage	V_{FM}	0.62	0.72 0.855 1.0 1.25	V	$I_F = 5.0\text{ mA}$ $I_F = 10\text{ mA}$ $I_F = 100\text{ mA}$ $I_F = 150\text{ mA}$
Maximum Peak Reverse Current	I_{RM}		2.5 50 30 25	A A A nA	$V_R = 75\text{ V}$ $V_R = 75\text{ V}, T_J = 150\text{ C}$ $V_R = 25\text{ V}, T_J = 150\text{ C}$ $V_R = 20\text{ V}$
Junction Capacitance	C_j		4.0	pF	$V_R = 0, f = 1.0\text{ MHz}$
Reverse Recovery Time	t_{rr}		4.0	ns	$I_F = I_R = 10\text{ mA}$, $I_{rr} = 0.1 \times I_R, R_L = 100$

Notes: 1. Valid provided that terminals are kept at ambient temperature.



1