



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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1N4448WX

High Speed Switching Diode 200mW

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Fast Switching Speed
- Ultra Small Surface Mount Package
- For General Purpose Switching Applications
- High Conductance
- Halogen free available upon request by adding suffix "-HF"

Mechanical Data

- Case: SOD-323, Molded Plastic
- Polarity: Indicated by Cathode Band
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking : T5

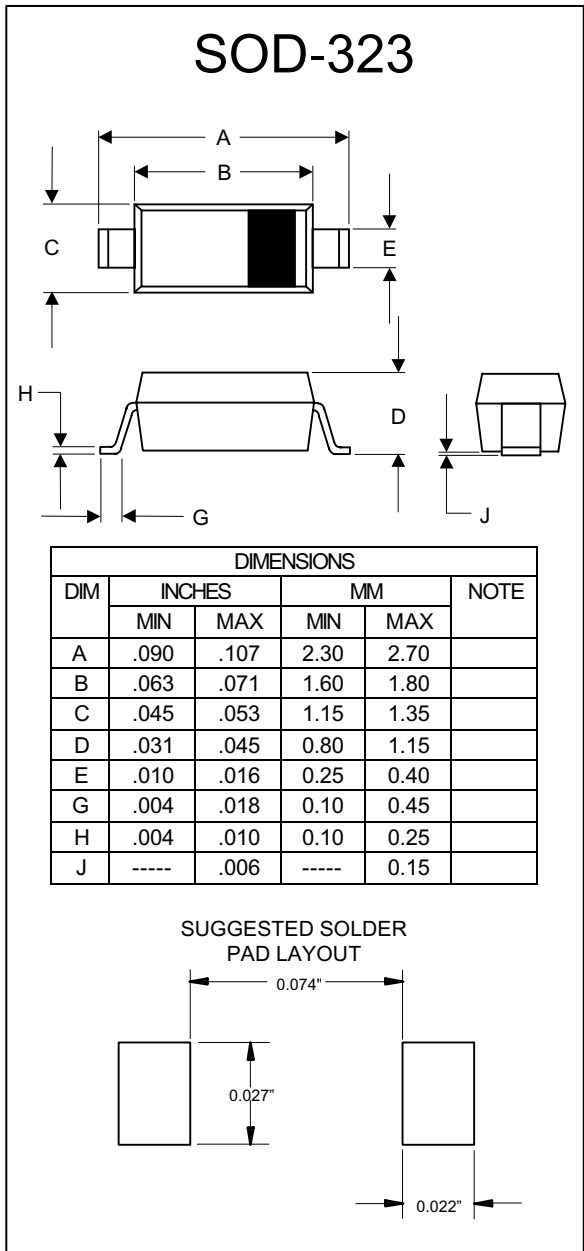
Maximum Ratings @ 25°C Unless Otherwise Specified

Characteristic	Symbol	Value	Unit
Non-Repetitive Peak Reverse Volt.	V_{RM}	100	V
Peak Repetitive Reverse Voltage	V_{RRM}		
Working Peak Reverse Voltage	V_{RWM}	75	V
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	I_o	250	mA
Non-Repetitive Peak @ $t=1.0\mu s$	I_{FSM}	4	A
Forward Surge Current @ $t=1.0s$		2	A
Power Dissipation(Note 1)	P_d	200	mW
Thermal Resistance(Note 1)	$R_{\theta JA}$	625	K/W
Operation/Storage Temp. Range	T_j, T_{STG}	-65 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Charateristic	Symbol	Max	Unit	Test Cond.
Maximum Forward Voltage Drop	V_{FM}	0.720	V	$I_F=5.0mA$
		0.855		$I_F=10mA$
		1		$I_F=100mA$
		1.25		$I_F=150mA$
Maximum Peak Reverse Current	I_{RM}	2.5	μA	$V_R=75V$
		50		$V_R=75V T_j=150^\circ C$
		30		$V_R=25V T_j=150^\circ C$
		25		$V_R=20V$
Junction Capacitance	C_j	4	pF	$V_R=0V, f=1.0MHz$
Reverse Recovery Time	t_{rr}	4	ns	$I_F=I_R=10mA, I_{rr}=0.1I_R, R_L=100 OHM$

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



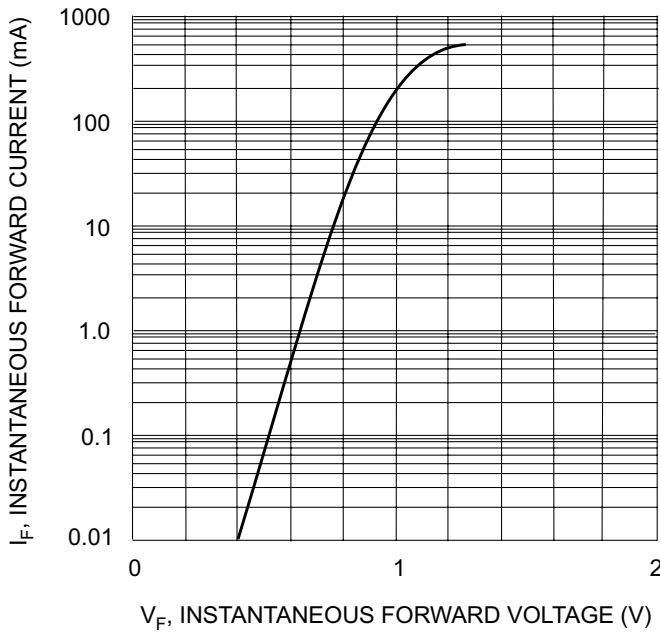


Fig. 1 Forward Characteristics

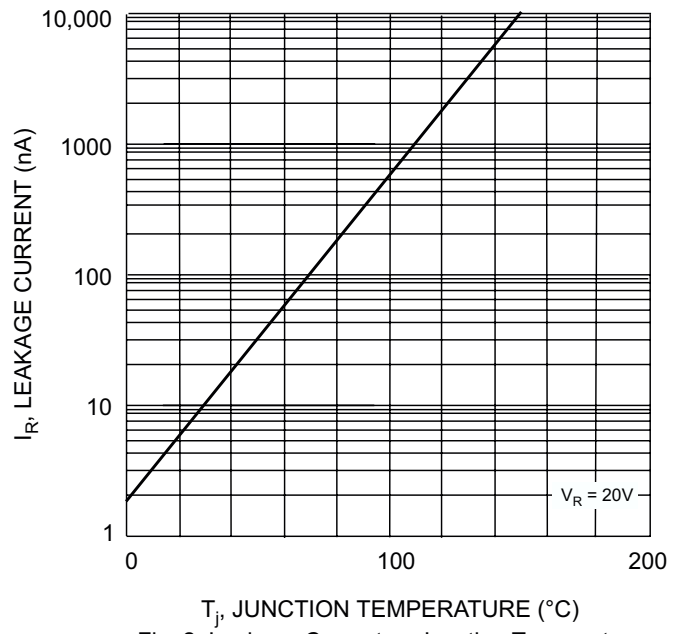


Fig. 2 Leakage Current vs Junction Temperature



Micro Commercial Components

Ordering Information :

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

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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