

# 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

### 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

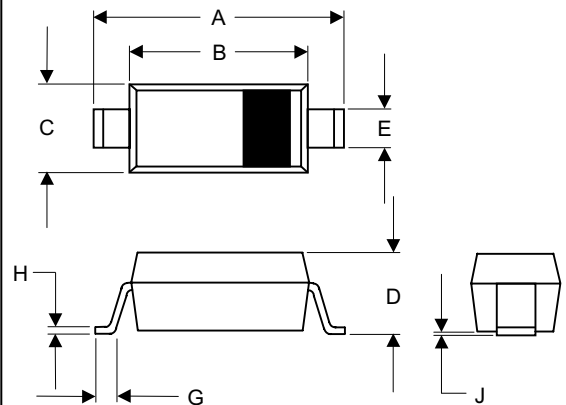
Characteristic	Symbol	Value	Unit
Non-Repetitive Peak Reverse Volt.	$V_{RM}$	100	V
Peak Repetitive Reverse Voltage	$V_{RRM}$		
Working Peak Reverse Voltage	$V_{RWM}$	75	V
DC Blocking Voltage	$V_R$		
RMS Reverse Voltage	$V_{R(RMS)}$	53	V
Forward Continuous Current(Note1)	$I_{FM}$	500	mA
Average Rectified 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	uA	$V_R=75V$
		50	uA	$V_R=75V T_j=150^\circ C$
		30	uA	$V_R=25V T_j=150^\circ C$
		25	nA	$V_R=20V$
Junction Capacitance	$C_j$	4	pF	$V_R=0V, f=1.0MHz$
Reverse Recovery Time	$t_{rr}$	4	ns	$I_F=I_R=10mA, I_{rr}=0.1I_R, R_L=100 OHM$

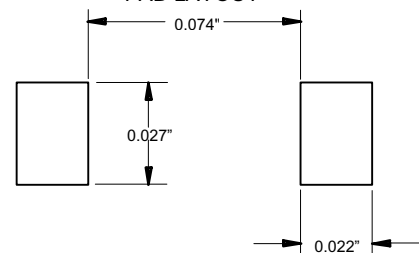
Notes: 1. Valid provided that terminals are kept at ambient temperature

### SOD-323



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.090	.107	2.30	2.70	
B	.063	.071	1.60	1.80	
C	.045	.053	1.15	1.35	
D	.031	.045	0.80	1.15	
E	.010	.016	0.25	0.40	
G	.004	.018	0.10	0.45	
H	.004	.010	0.10	0.25	
J	-----	.006	-----	0.15	

### SUGGESTED SOLDER PAD LAYOUT



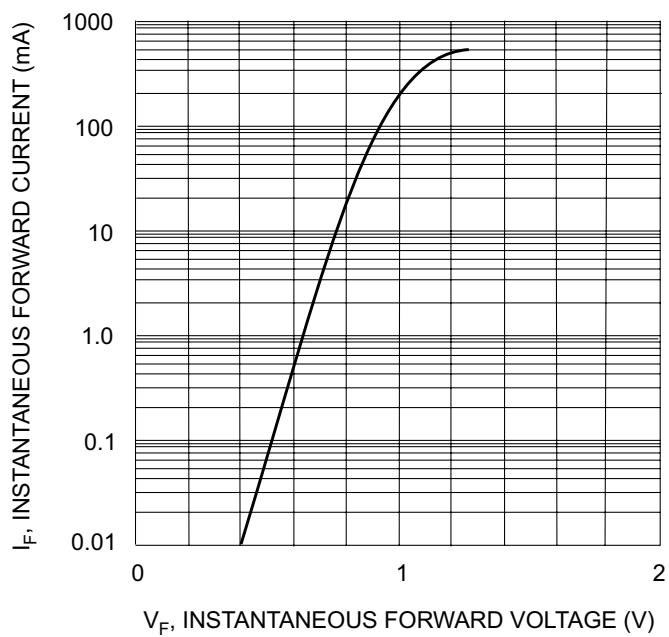


Fig. 1 Forward Characteristics

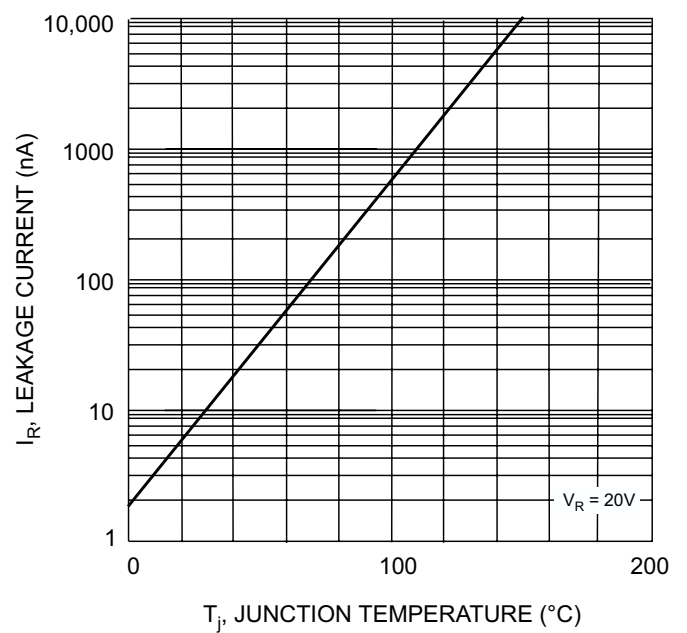


Fig. 2 Leakage Current vs Junction Temperature

## Ordering Information :

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

### \*\*\*IMPORTANT NOTICE\*\*\*

**Micro Commercial Components Corp.** reserves the right to make changes without further notice to any product herein to make corrections, modifications , enhancements , improvements , or other changes . **Micro Commercial Components Corp .** does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights ,nor the rights of others . The user of products in such applications shall assume all risks of such use and will agree to hold **Micro Commercial Components Corp .** and all the companies whose products are represented on our website, harmless against all damages.

### \*\*\*LIFE SUPPORT\*\*\*

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

### \*\*\*CUSTOMER AWARENESS\*\*\*

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources.** MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Micro Commercial Components \(MCC\):](#)

[1N4448WXT](#) [1N4448WX-TP](#)