



Micro Commercial Components  
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**1N4448X**

## Features

- Fast Switching Speed
- For General Purpose Switching Applications
- Surface Mount Package Ideally Suited for Automatic Insertion
- Marking Code: T5
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)

## Maximum Ratings

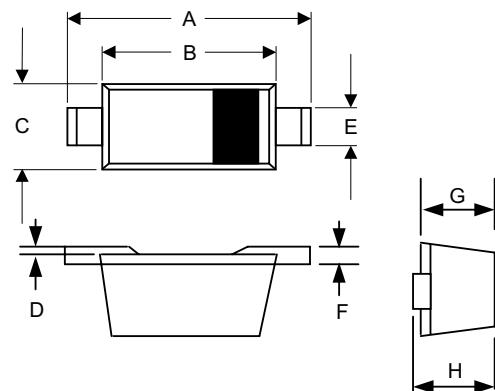
Symbol	Rating	Rating	Unit
$V_{RM}$	Non-Repetitive Peak Reverse Voltage	100	V
$V_{RRM}$	Peak Repetitive Reverse Voltage		
$V_{RWM}$	Working Peak Reverse Voltage	75	V
$V_R$	DC Blocking Voltage		
$I_{FM}$	Forward Continuous Current	500	mA
$I_o$	Average Rectified Output Current	250	mA
$I_{FSM}$	Peak Forward Surge Current @ 1.0 $\mu$ s @1.0s	4.0 2.0	A
$R_{\theta JA}$	Thermal Resistance Junction to Ambient	625	$^{\circ}$ /W
$P_D$	Power dissipation	150	mW
$T_J, T_{STG}$	Operating and Storage Junction Temperature	-65 to +150	$^{\circ}$ C

## Electrical Characteristics @ 25°C Unless Otherwise Specified

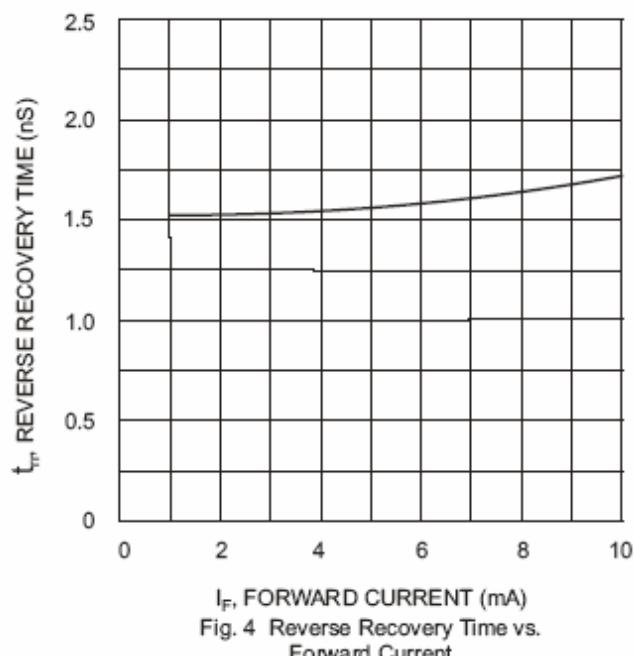
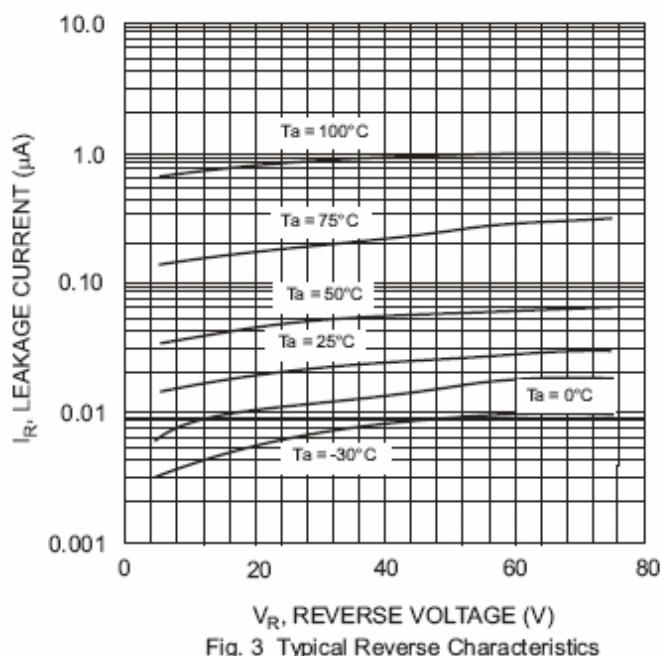
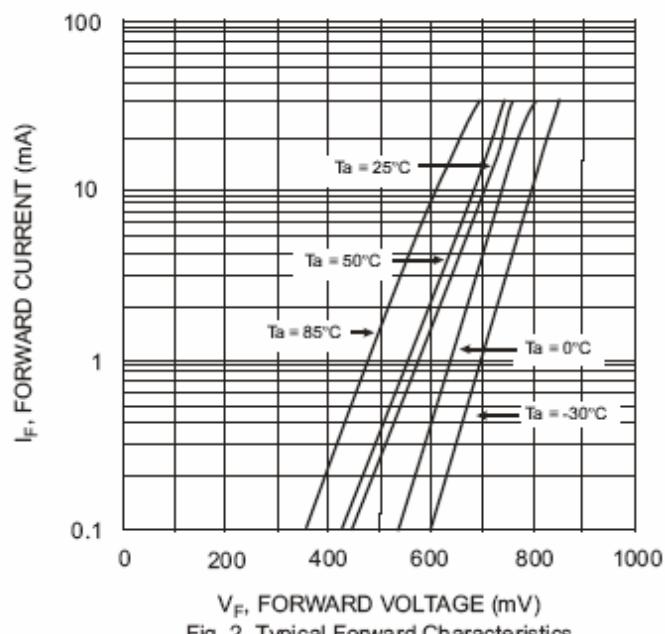
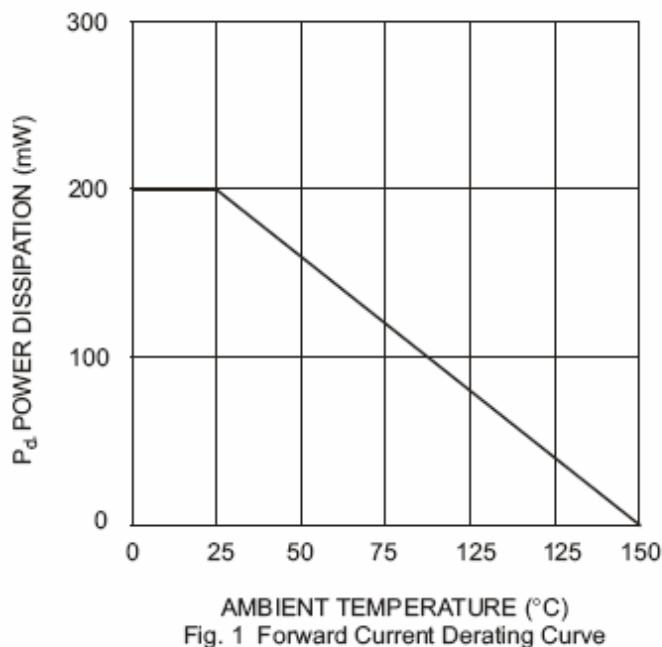
Symbol	Parameter	Min	Max	Test Conditions
$V_{(BR)}$	Reverse Breakdown Voltage	75V	---	$I_R=10 \mu A$
$I_R$	Reverse Voltage Leakage Current	---	2.5 $\mu$ A 25nA	$V_R=75V$ $V_R=20V$
$V_F$	Forward Voltage	0.62V --- --- ---	0.72V 0.855V 1.0V 1.25V	$I_F=5mA$ $I_F=10mA$ $I_F=100mA$ $I_F=150mA$
$C_T$	Total Capacitance	---	4.0pF	$V_R=0V, f=1MHz$
$t_{rr}$	Reverse Recovery Time	---	4.0ns	$I_R=I_F=10mA, R_L=100 \Omega$ , Rec. to 1.0mA

**150mW**  
**Switching Diodes**

**SOD523**



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.059	.067	1.50	1.70	
B	.043	.051	1.10	1.30	
C	.030	.033	0.75	0.85	
D	.001	.003	0.01	0.07	
E	.010	.014	0.25	0.35	
F	.003	.006	0.08	0.15	
G	.020	.028	0.50	0.70	
H	.020	.031	0.51	0.77	



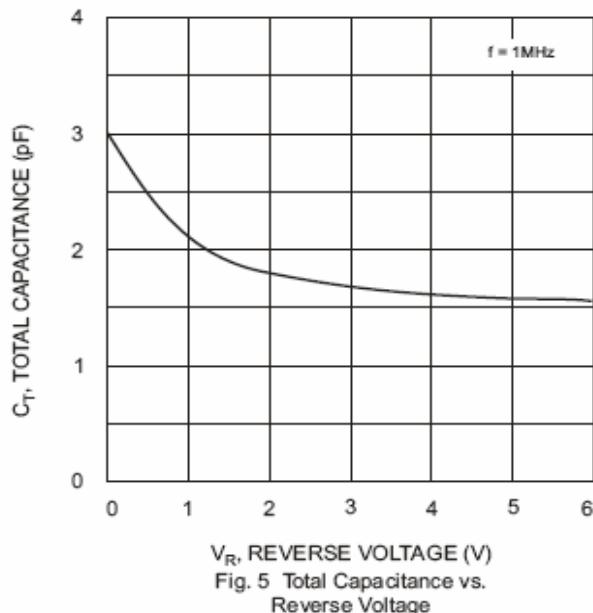


Fig. 5 Total Capacitance vs.  
Reverse Voltage

<sup>TM</sup>

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## Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 8Kpcs/Reel

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