



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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Micro Commercial Components



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**1N4448X**

**150mW  
 Switching Diodes**

**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)
- Halogen free available upon request by adding suffix "-HF"

**Maximum Ratings**

Symbol	Rating	Rating	Unit
$V_{RM}$	Non-Repetitive Peak Reverse Voltage	100	V
$V_{RRM}$	Peak Repetitive Reverse Voltage	75	V
$V_{RWM}$	Working Peak Reverse Voltage		
$V_R$	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	4.0	A
		@1.0s	
$R_{\theta JA}$	Thermal Resistance Junction to Ambient	625	$^{\circ}C/W$
$P_D$	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	$I_F=5mA$
		---	0.855V	$I_F=10mA$
		---	1.0V 1.25V	$I_F=100mA$ $I_F=150mA$
$C_T$	Total Capacitance	---	4.0pF	$V_R=0V, f=1MHz$
$t_{rr}$	Reverse Recovery Time	---	4.0ns	$I_R=I_F=10mA, R_L=100 \Omega, Rec. to 1.0mA$

**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	

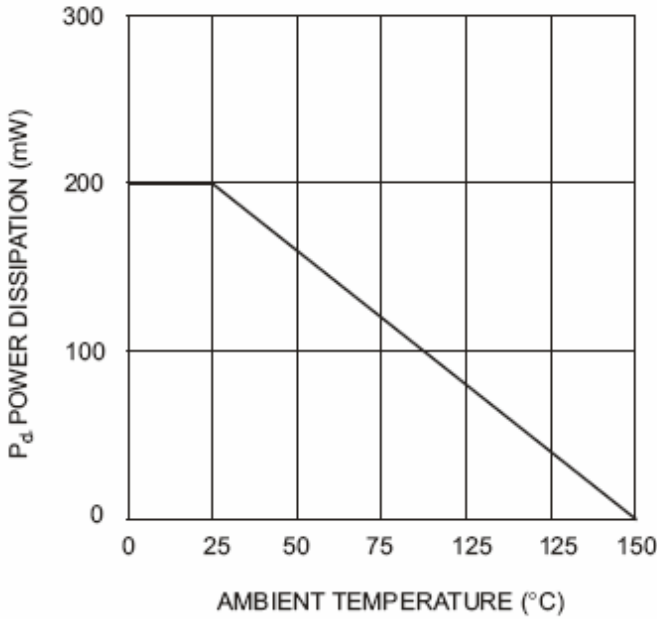


Fig. 1 Forward Current Derating Curve

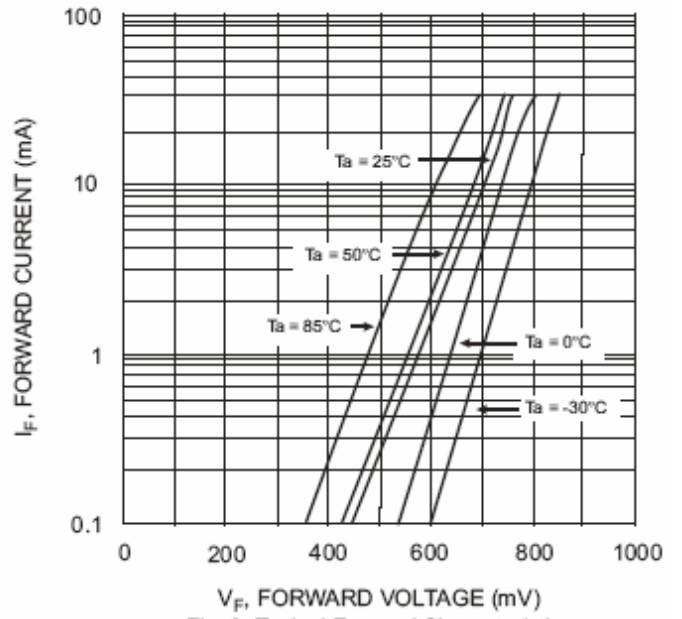


Fig. 2 Typical Forward Characteristics

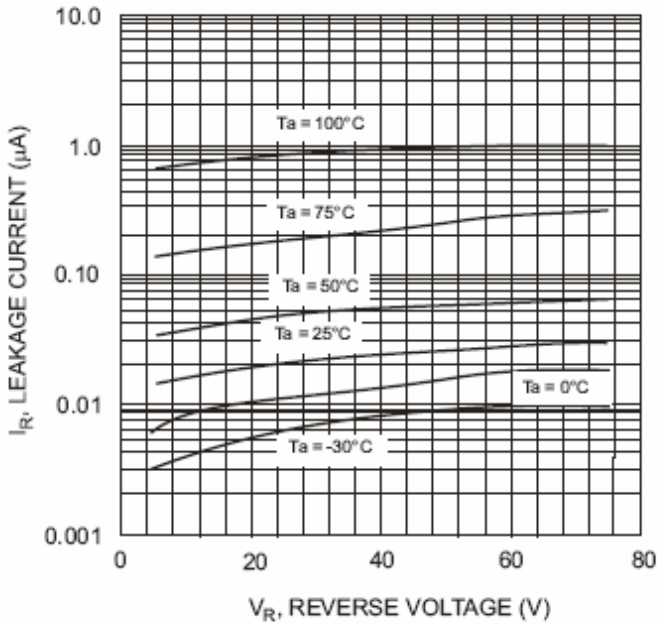


Fig. 3 Typical Reverse Characteristics

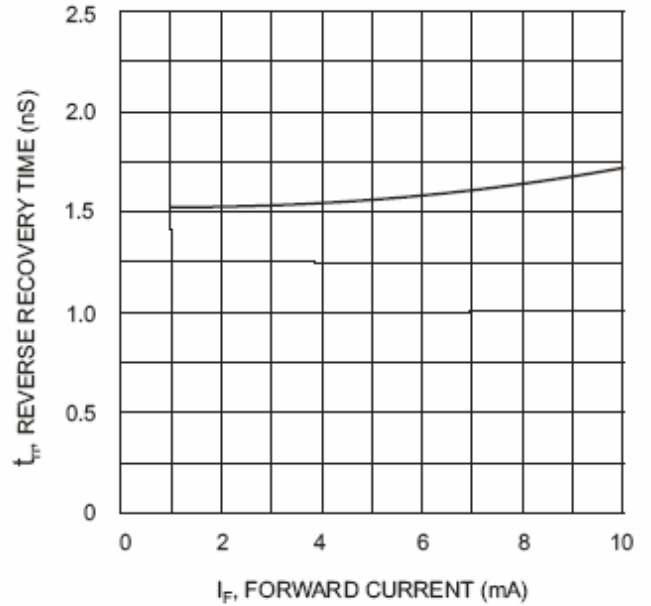
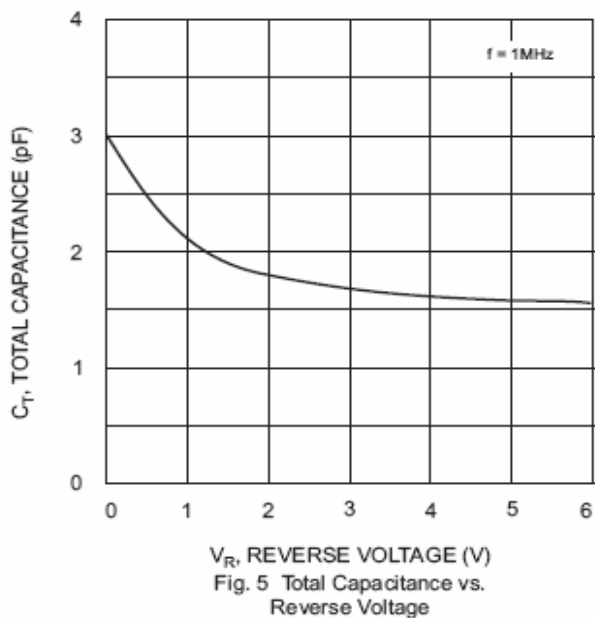


Fig. 4 Reverse Recovery Time vs. Forward Current

1N4448X





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### Ordering Information :

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

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

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