

**Micro Commercial Components** 

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### 1N4148X

## **Features**

- Fast Switching Speed
- For General Purpose Switching Applications
- Surface Mount Package Ideally Suited for Automatic Insertion Lead Free Finish/RoHS Compliant("P" Suffix

designates RoHS Compliant. See ordering information)

## **Mechanical Data**

- Marking Code: T4
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1

# **Maximum Ratings**

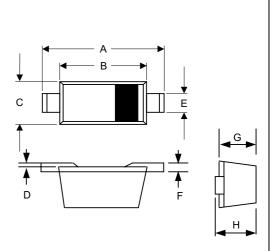
Symbol	Parameter	Rating	Unit
$V_{RM}$	Non-Repetitive Peak Reverse Voltage	100	V
$egin{array}{c} oldsymbol{V}_{RWM} \ oldsymbol{V}_{R} \end{array}$	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	75	V
$V_{R(RMS)}$	RMS Reverse Voltage	53	V
I <sub>FM</sub>	Forward Continuous Current	300	mA
lo	Average Rectified Output Current	150	mA
I <sub>FSM</sub>	Peak Forward Surge Current @1.0 µ s @1.0s	2.0 1.0	Α
R <sub>⊕JA</sub>	Thermal Resistance Junction to Ambient	625	°C/W
P₀	Power dissipation	200	mW
T <sub>J</sub> ,T <sub>STG</sub>	Operating and Storage Junction Temperature	-65 to +150	°C

#### Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Test Conditions	
$V_{(BR)}$	Reverse Breakdown Voltage	75V	-	I <sub>R</sub> =10 μ A	
I <sub>R</sub>	Reverse Voltage Leakage Current	-	1.0 µ A 25nA	$V_R$ =75V $V_R$ =20V	
V <sub>F</sub>	Forward Voltage	  	0.715V 0.855V 1.0V 1.25V	I <sub>F</sub> =5mA I <sub>F</sub> =10mA I <sub>F</sub> =100mA I <sub>F</sub> =150mA	
$C_T$	Total Capacitance		2.0pF	V <sub>R</sub> =0V, f=1MHZ	
t <sub>rr</sub>	Reverse Recovery Time		4.0ns	$I_R=I_F=10$ mA, $R_L=100$ $\Omega$ , Rec. to 1.0mA	

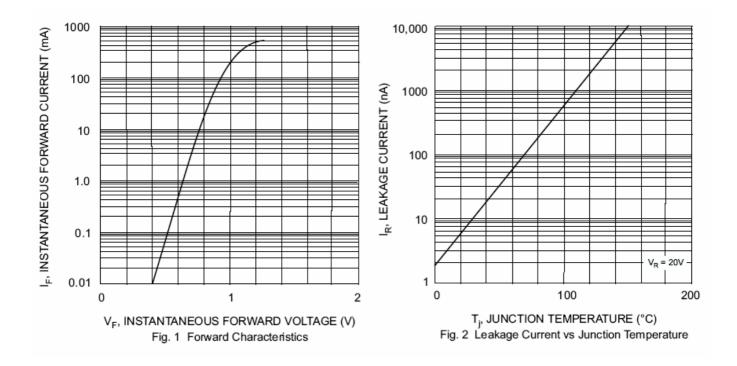
# 200mW **Switching Diodes**

# **SOD523**



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







### **Ordering Information**

Device	Packing
(Part Number)-TP	Tape&Reel3Kpcs/Reel

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