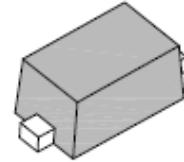


Two Terminals SMD Switching Diode

Features

- Fast switching speed
- Electrically identical to standard JEDEC
- Surface mount package ideally suited for automatic insertion
- RoHS compliant



SOD-523

Mechanical Data

Case:	SOD-523, plastic case
Terminals:	Solderable per MIL-STD-750, Method 2026
Polarity:	Color band denotes cathode end
Weight:	Approx. 0.002 gram

Maximum Ratings *(T_{Ambient}=25°C unless noted otherwise)*

Symbol	Description	1N4148WT	Unit	Conditions
	Marking Code	A2		
V_{RM}	Reverse Voltage	75	V	
V_{RRM}	Peak Reverse Voltage	100	V	
V_{RMS}	RMS Voltage	50	V	
V_{DC}	Maximum DC Blocking Voltage	75	V	
I_{F(AV)}	Maximum Average Forward Current	150	mA	T _A =25 °C
I_{FSM}	Peak Forward Surge Current, t=1.0μS	4	A	
P_D	Total Power Dissipation Derate above 25 °C	200	mW	
R_{thJA}	Typical Thermal Resistance, Junction to Ambient	635	° C/W	
T_J, T_{STG}	Operating Junction and Storage Temperature Range	-40 to +125	° C	

Two Terminals SMD Switching Diode

1N4148WT

Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	1N4148WT	Unit	Conditions
V_F	Maximum Forward Voltage	0.715	V	I _F =1mA
		0.855		I _F =10mA
		1.00		I _F =50mA
		1.25		I _F =150mA
I_R	Reverse Leakage Current	0.025	μA	V _R =20V
		2.5		V _R =75V
C_T	Maximum Total Capacitance	1.5	pF	V _R =0V, f=1MHz
T_{rr}	Maximum Reverse Recovery Time	4	ns	I _F =10mA, I _R =1mA, V _R =6V, R _L =100Ω

Typical Characteristics Curves

Fig.1- Power Derating Curve

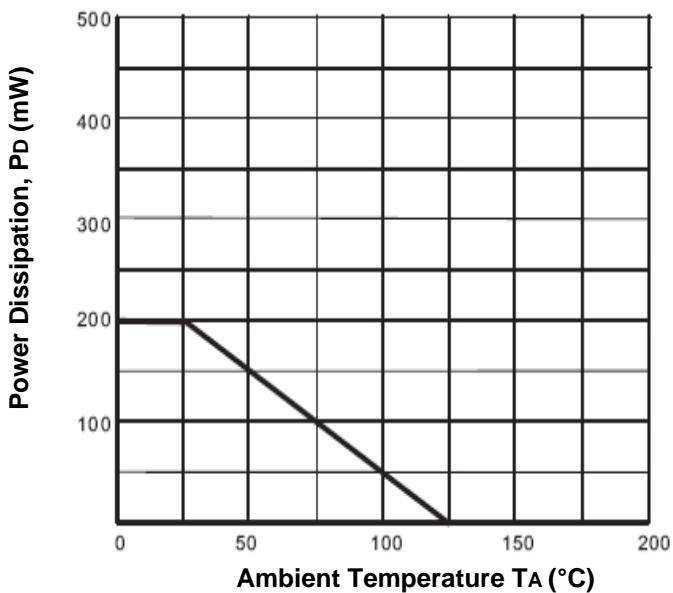
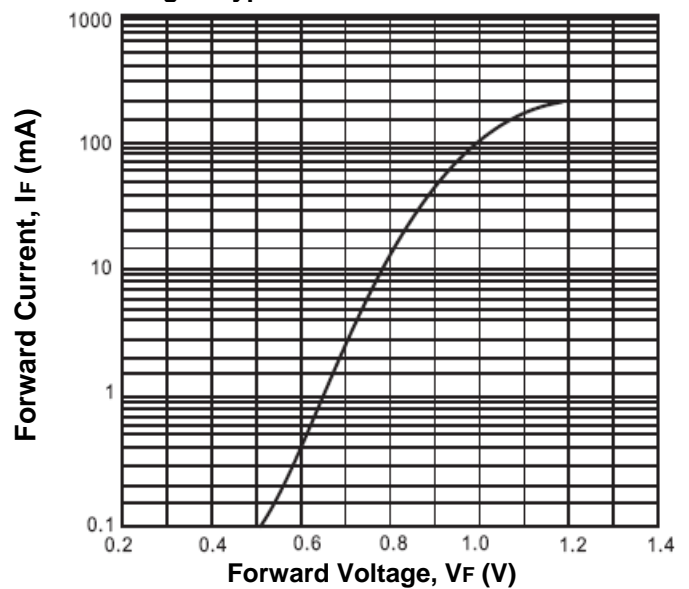


Fig.2- Typical Forward Characteristics



Two Terminals SMD Switching Diode

1N4148WT

Fig.3- Typical Reverse Characteristics

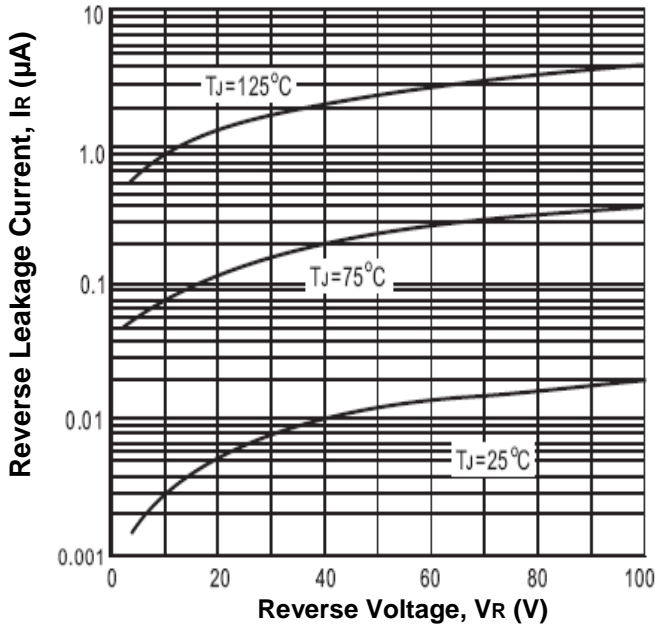
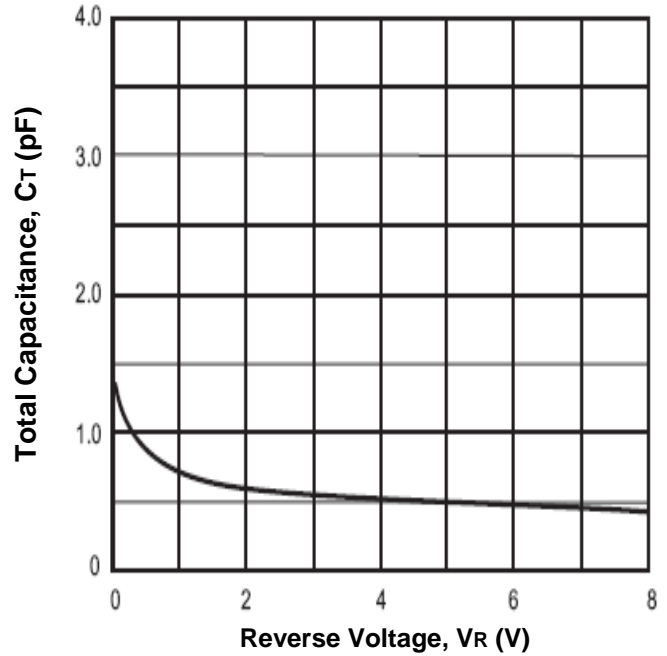
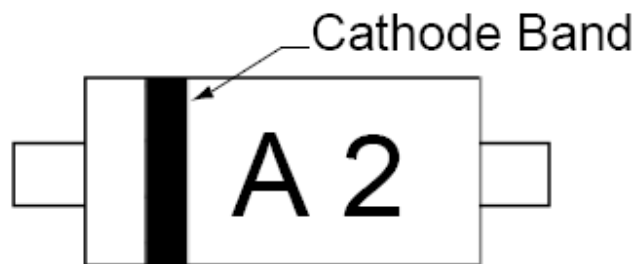


Fig.4- Typical Junction Capacitance



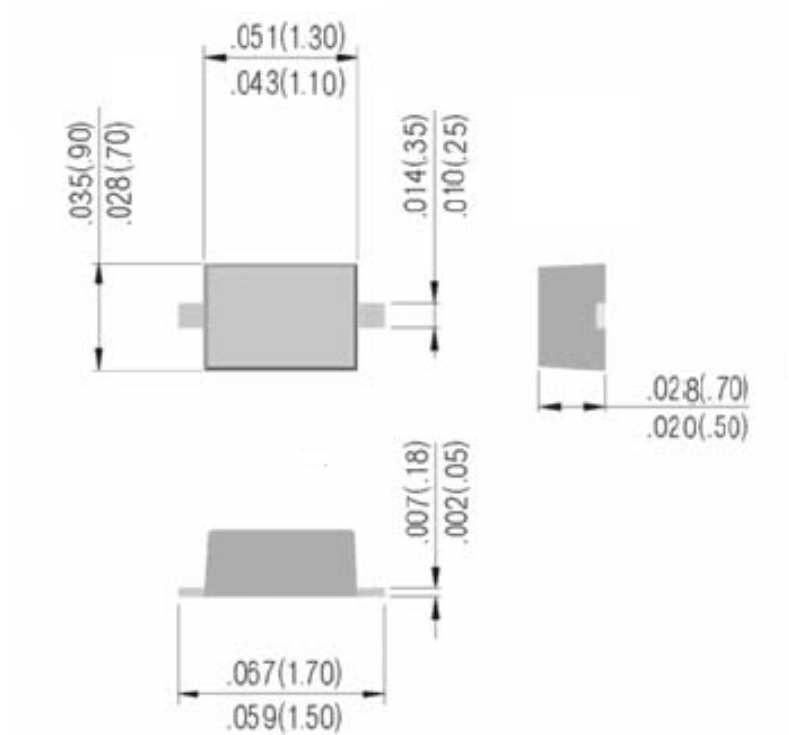
Marking Information:



Two Terminals SMD Switching Diode

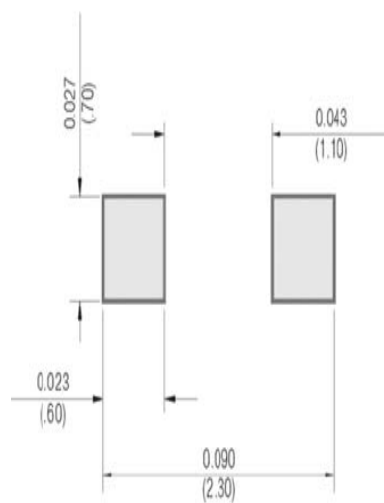
1N4148WT

Dimensions in inch (mm)



SOD-523

Mounting Pad Layout in inch (mm)



Two Terminals SMD Switching Diode

1N4148WT

How to contact us:

US HEADQUARTERS

28040 WEST HARRISON PARKWAY, VALENCIA, CA 91355-4162

Tel: (800) TAITRON (800) 824-8766 (661) 257-6060

Fax: (800) TAITFAX (800) 824-8329 (661) 257-6415

Email: taitron@taitroncomponents.com

Http://www.taitroncomponents.com

TAITRON COMPONENTS MEXICO, S.A .DE C.V.

BOULEVARD CENTRAL 5000 INTERIOR 5 PARQUE INDUSTRIAL ATITALAQUIA, HIDALGO C.P.
42970 MEXICO

Tel: +52-55-5560-1519

Fax: +52-55-5560-2190

TAITRON COMPONENTS INCORPORATED REPRESENTAÇÕES DO BRASIL LTDA

RUA DOMINGOS DE MORAIS, 2777, 2.ANDAR, SALA 24 SAÚDE - SÃO PAULO-SP 04035-001 BRAZIL

Tel: +55-11-5574-7949

Fax: +55-11-5572-0052

TAITRON COMPONENTS INCORPORATED, SHANGHAI REPRESENTATIVE OFFICE

METROBANK PLAZA, 1160 WEST YAN' AN ROAD, SUITE 1503, SHANGHAI, 200052, CHINA

Tel: +86-21-5424-9942

Fax: +86-21-5424-9931