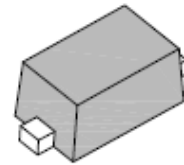


Two Terminals SMD Switching Diode

Features

- Extremely fast reverse recovery time to reduce switching losses
- Very low capacitance for reduced insertion losses
- Reverse voltage rating of 80V
- 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. 0.0016 gram

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

Symbol	Description	TWD400WT	Unit	Conditions
	Marking Code	14		
V_{RM}	Continuous Reverse Voltage	80	V	
V_{RRM}	Peak Reverse Voltage	90	V	
I_{FM}	Continuous Forward Current	225	mA	
I_{FSM}	Non-repetitive Peak Forward Current, t=0.001ms, Square Wave	4	A	
P_D	Total Power Dissipation	200	mW	Note 1
R_{thJA}	Thermal Resistance, Junction to Ambient	625	° C/W	
T_J, T_{STG}	Operating Junction and Storage Temperature Range	-55 to +150	° C	

Note 1: FR-5 Board 1.0 x 0.75 x 0.062"

Two Terminals SMD Switching Diode

TWD400WT

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

Symbol	Description	TYP.	MAX.	Unit	Conditions
V_F	Forward Voltage (Note 2)	-	1.2	V	I _F =100mA
I_R	Reverse Leakage Current	-	0.1	μA	V _R =80V
C_T	Junction Capacitance	3	-	pF	0Vdc Bias, f=1MHz
T_{rr}	Reverse Recovery Time	-	4.0	nS	I _F =10mA, I _R =10mA, R _L =100Ω measured at I _{Rrec} =1mA

Note 2: Short duration pulse test to avoid self-heating effect

Typical Characteristics Curves

Fig.1- Typical Forward Characteristics

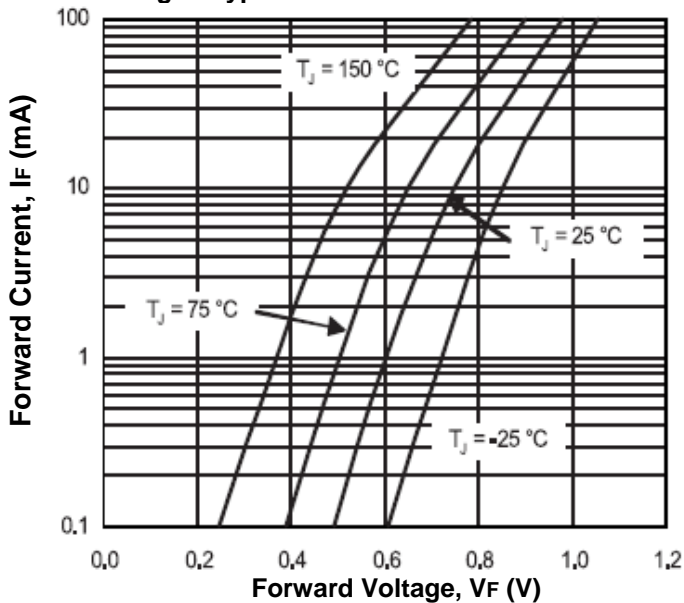
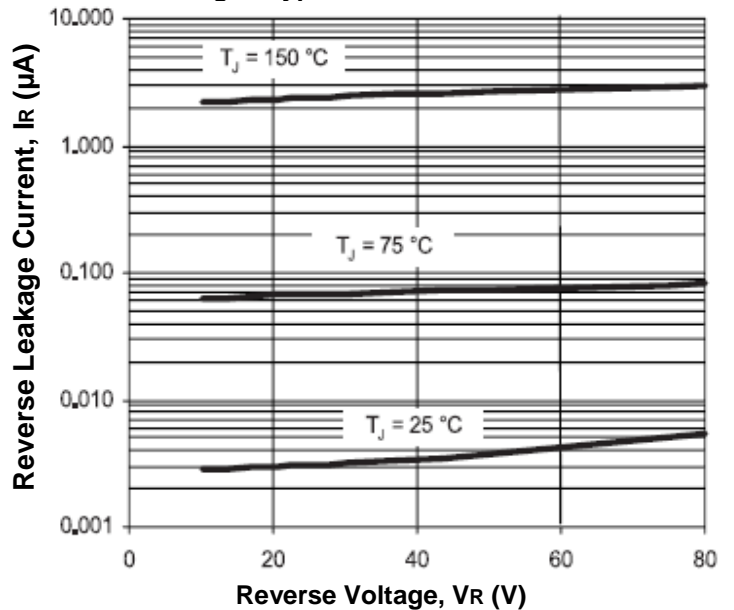
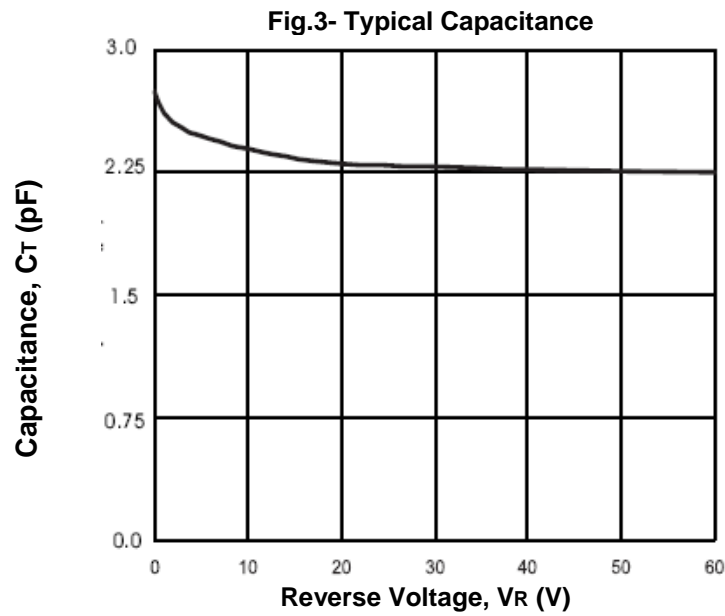


Fig.2- Typical Reverse Characteristics

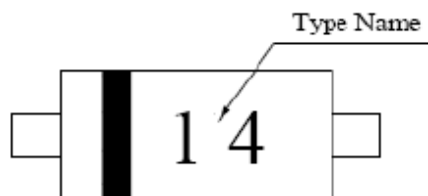


Two Terminals SMD Switching Diode

TWD400WT



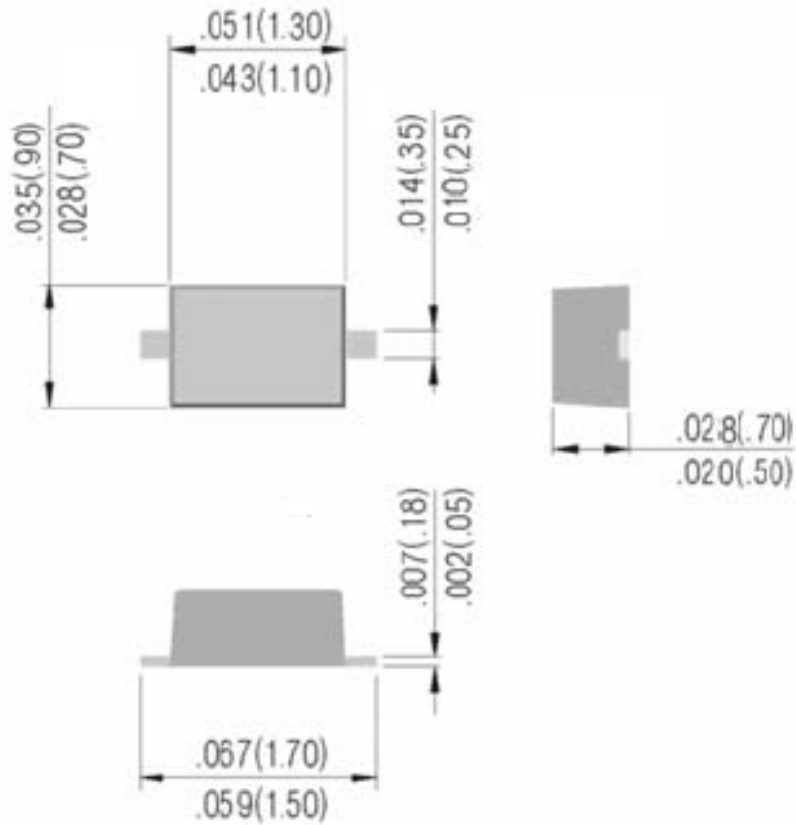
Marking Information:



Two Terminals SMD Switching Diode

TWD400WT

Dimensions in inch (mm)

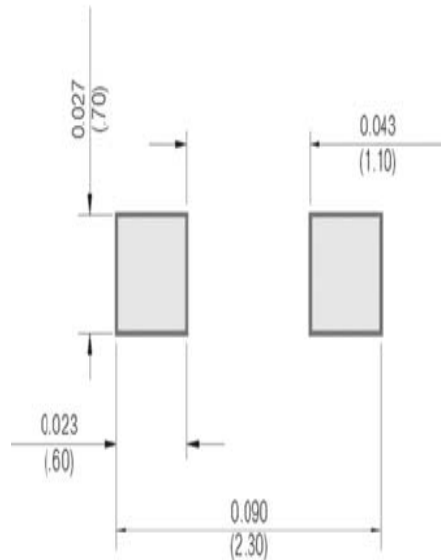


SOD-523

Two Terminals SMD Switching Diode

TWD400WT

Mounting Pad Layout in inch (mm)



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