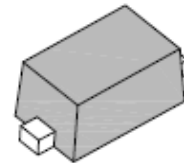


Two Terminals SMD Switching Diode

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

Symbol	Description	TWD4148-400WT	Unit	Conditions
	Marking Code	14		
VRM	Continuous Reverse Voltage	80	V	
VRRM	Peak Reverse Voltage	90	V	
IFM	Continuous Forward Current	225	mA	
IFSM	Non-repetitive Peak Forward Current, $t=0.001ms$, Square Wave	4	A	
PD	Total Power Dissipation	200	mW	Note 1
RthJA	Thermal Resistance, Junction to Ambient	625	$^{\circ}C/W$	
TJ, TSTG	Operating Junction and Storage Temperature Range	-55 to +150	$^{\circ}C$	

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

Two Terminals SMD Switching Diode

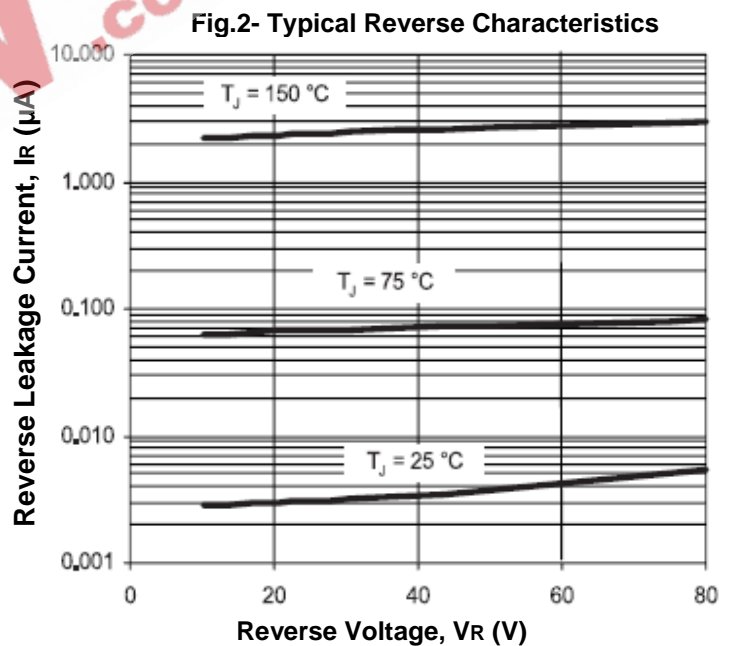
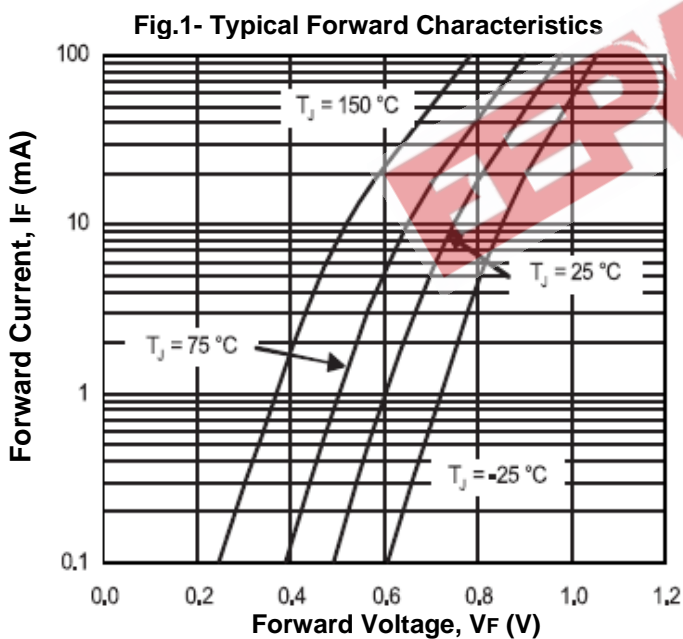
TWD4148-400WT

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 _R rec=1mA

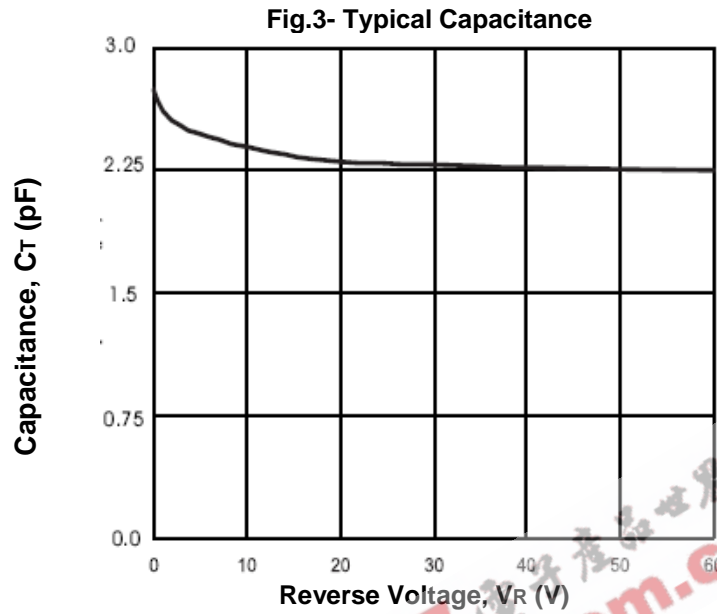
Note 2: Short duration pulse test to avoid self-heating effect

Typical Characteristics Curves

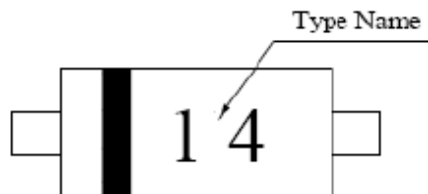


Two Terminals SMD Switching Diode

TWD4148-400WT



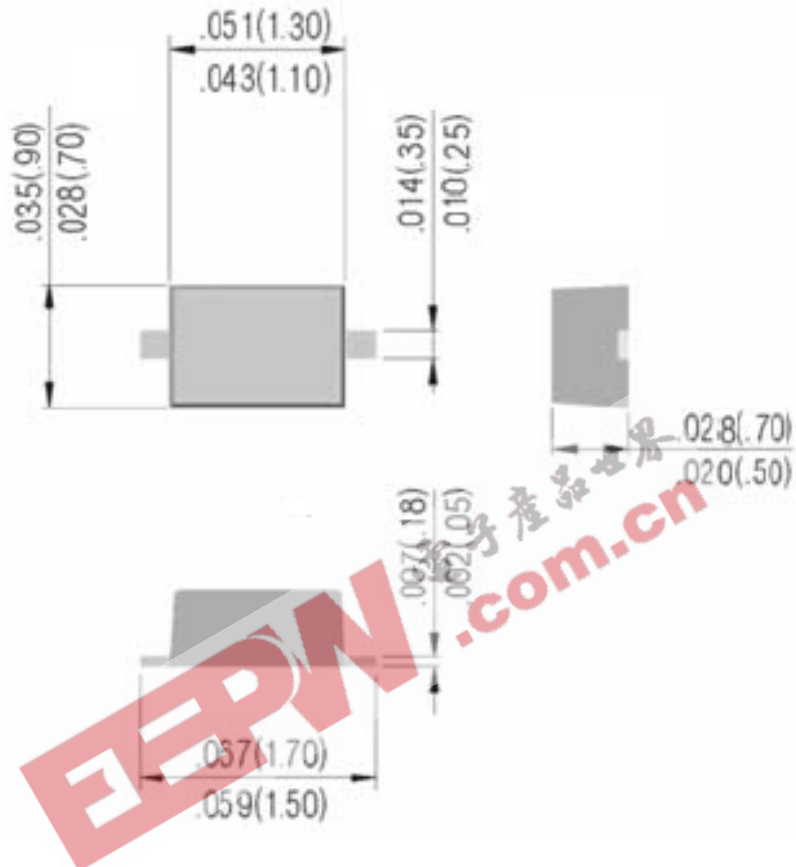
Marking Information:



Two Terminals SMD Switching Diode

TWD4148-400WT

Dimensions in inch (mm)

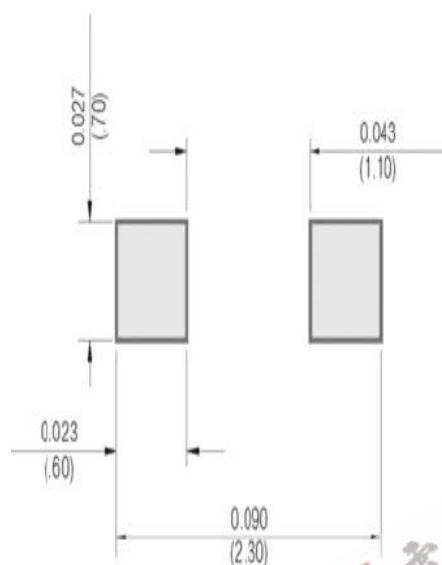


SOD-523

Two Terminals SMD Switching Diode

TWD4148-400WT

Mounting Pad Layout in inch (mm)



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