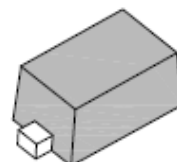


Two Terminals SMD Switching Diode

Features

- Low Forward Voltage
- Fast Reverse Recovery Time
- Small Total Capacitance
- 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	TWD4148-160WT	Unit	Conditions
	Marking Code	UF		
V_{RM}	Reverse Voltage	80	V	
V_{RRM}	Peak Reverse Voltage	85	V	
I_{FM}	Max. Peak Forward Current	300	mA	
I_{F(AV)}	Max. Forward Average Current at T _A =25° C	100	mA	
I_{FSM}	Peak Forward Surge Current, Pulse Width=1.0us	2.0	A	
P_D	Power Dissipation Derate above 25°C	-	mW	
T_J	Junction Temperature	150	° C	
T_{STG}	Storage Temperature Range	-55 to +150	° C	

Two Terminals SMD Switching Diode

TWD4148-160WT

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

Symbol	Description	TYP.	MAX.	Unit	Conditions
V_F	Max. Forward Voltage	0.6	-	V	I _F =1mA
		0.72	-		I _F =10mA
		0.9	1.2		I _F =100mA
I_R	Reverse Current	-	0.5	μA	V _R =80V
C_T	Total Capacitance	0.9	3.0	pF	V _R =0V, f=1MHz
T_{rr}	Max. Reverse Recovery Time	1.6	4.0	ns	I _F =10mA ,

Typical Characteristics Curves

Fig.1- Typical Instantaneous Forward Characteristics

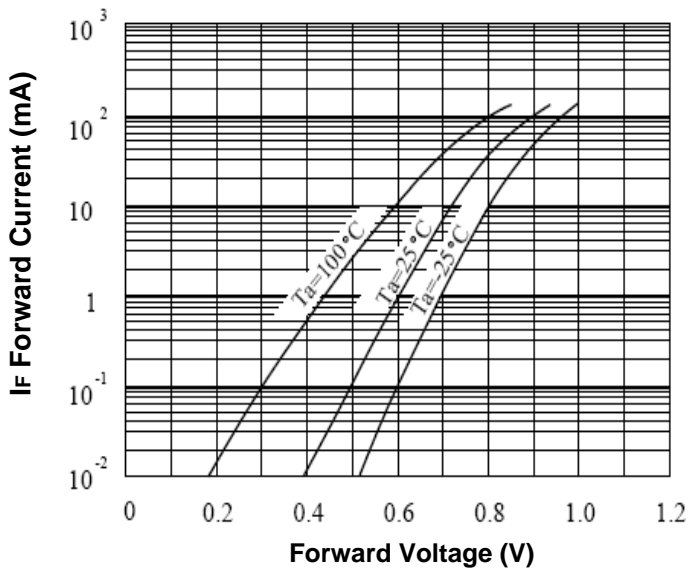
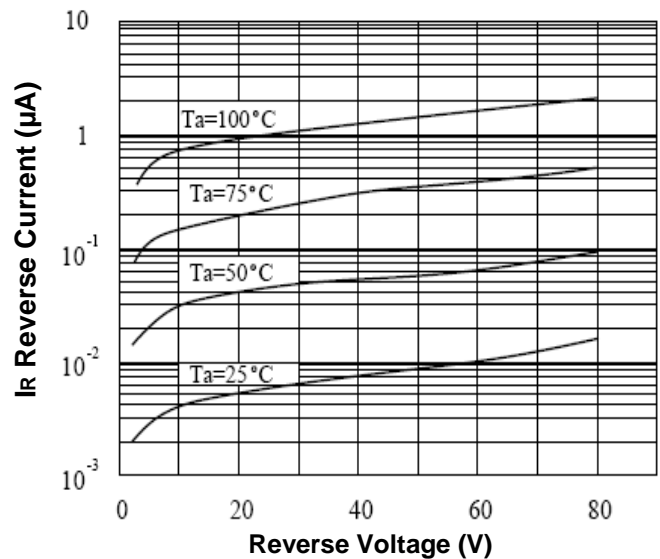


Fig.2- Typical Instantaneous Reverse Characteristics Curve



Two Terminals SMD Switching Diode

TWD4148-160WT

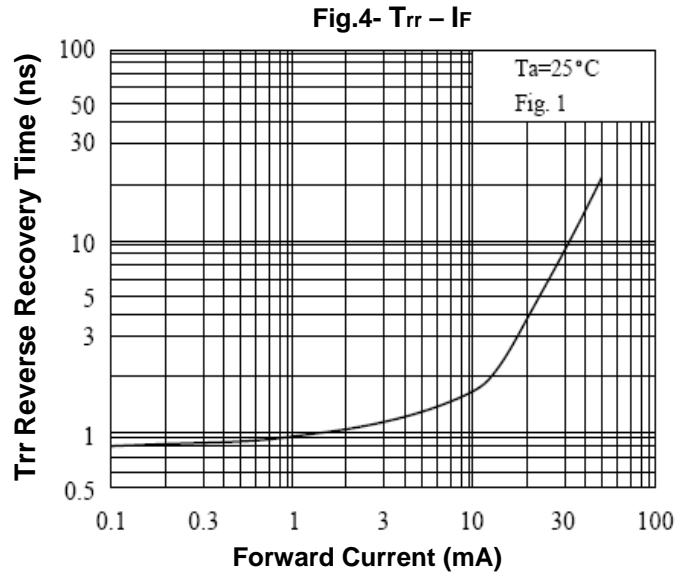
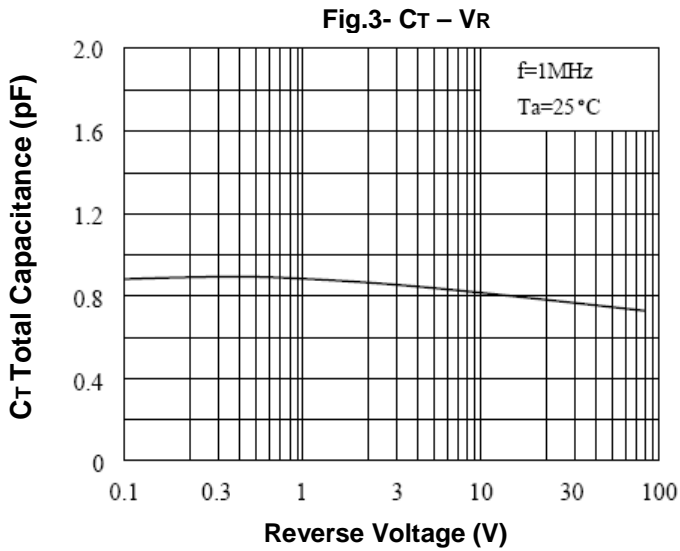
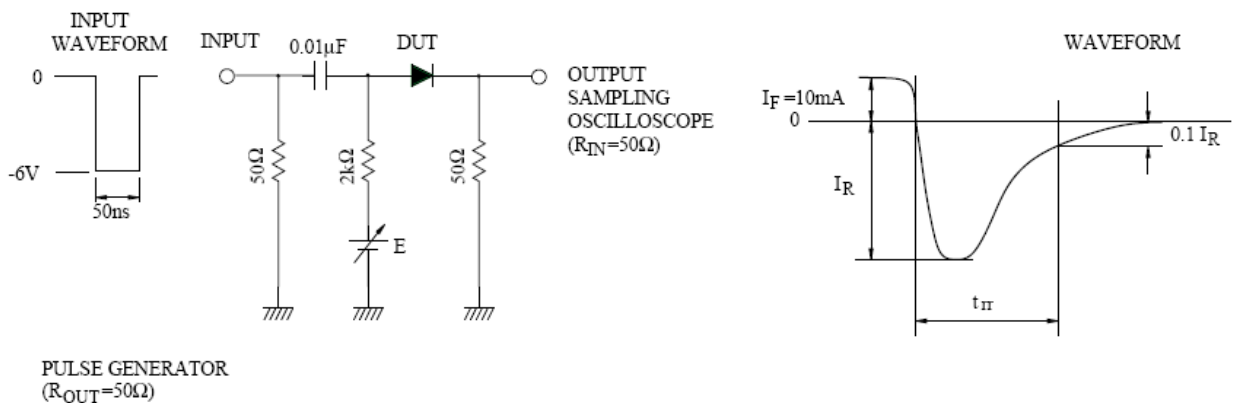
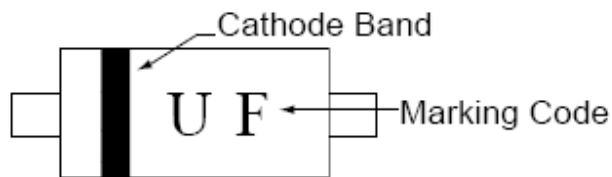


Fig. 1. REVERSE RECOVERY TIME(t_{rr}) TEST CIRCUIT



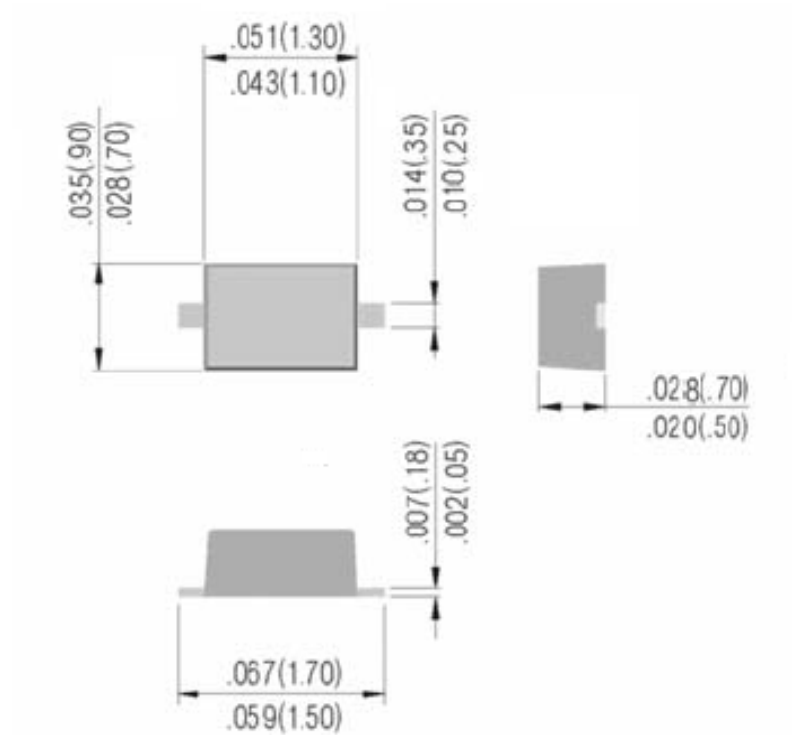
Marking Information:



Two Terminals SMD Switching Diode

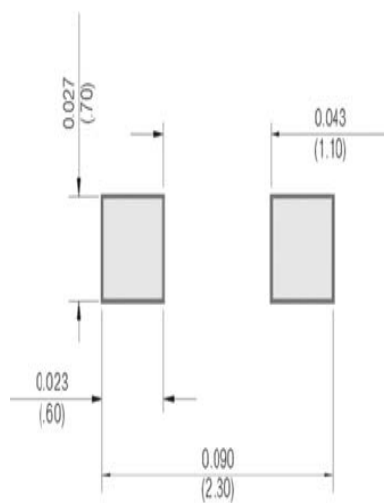
TWD4148-160WT

Dimensions in inch (mm)



SOD-523

Mounting Pad Layout in inch (mm)



Two Terminals SMD Switching Diode

TWD4148-160WT

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