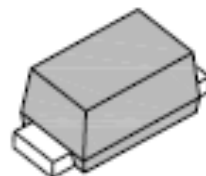


Two Terminals SMD Switching Diode

Features

- Low Forward Voltage
- Fast Reverse Recovery Time
- Small Total Capacitance
- RoHS Compliant



SOD-723

Mechanical Data

Case:	SOD-723, Plastic Case
Terminals:	Solderable per MIL-STD-750, Method 2026
Polarity:	Color band denotes cathode end
Weight:	Approx. 0.00077 gram

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

Symbol	Description	TWD4148-160WU	Unit	Conditions
	Marking Code	UF		
VRM	Reverse Voltage	80	V	
VRRM	Peak Reverse Voltage	85	V	
IFM	Max. Peak Forward Current	300	mA	
IF(AV)	Average Forward Current	100	mA	
IFSM	Peak Forward Surge Current, Pulse Width=10ms	2.0	A	
PD	Power Dissipation	100	mW	Note
TJ	Junction Temperature	150	° C	
TSTG	Storage Temperature Range	-55 to +150	° C	

Note: Mounted on a glass epoxy circuit board of 20 x 20mm, pad dimension of 4 x 4mm.

Two Terminals SMD Switching Diode

TWD4148-160WU

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

Symbol	Description	TYP.	MAX.	Unit	Conditions
V_F	Max. Forward Voltage	0.60	-	V	I _F =1mA
		0.72	-		I _F =10mA
		0.90	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

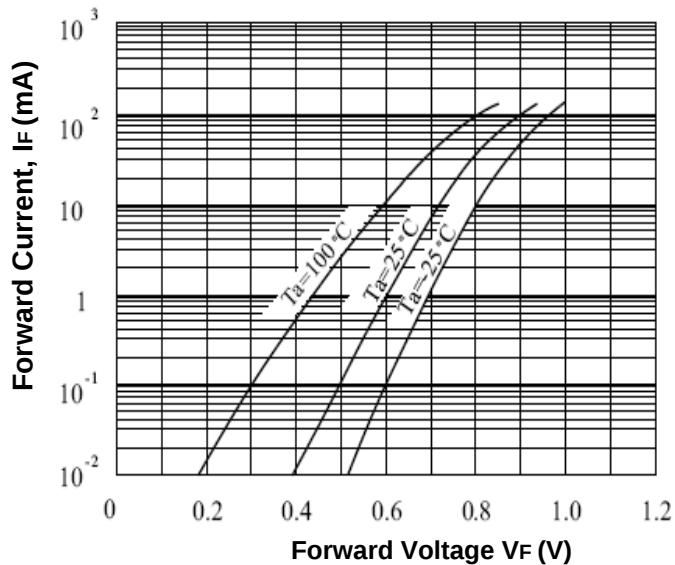
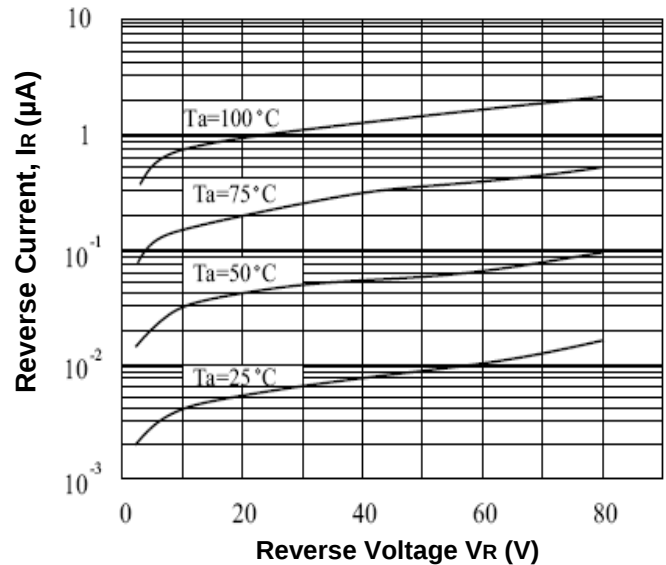


Fig.2- Typical Instantaneous Reverse Characteristics Curve



Two Terminals SMD Switching Diode

TWD4148-160WU

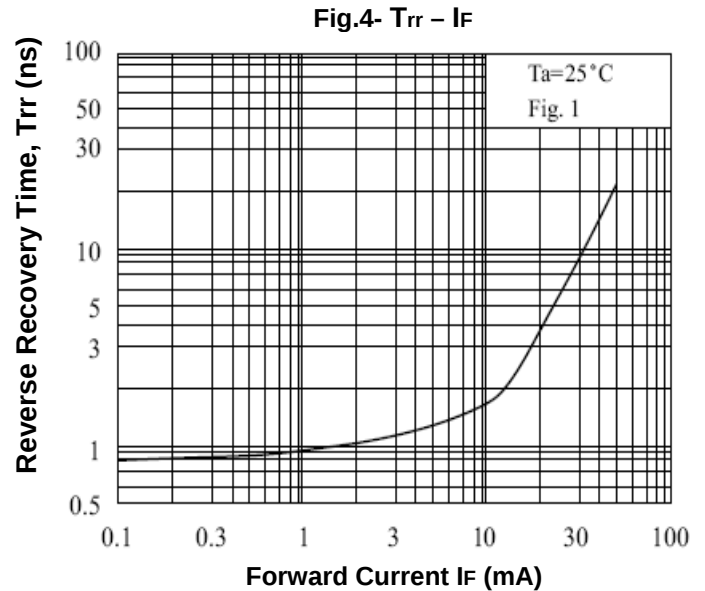
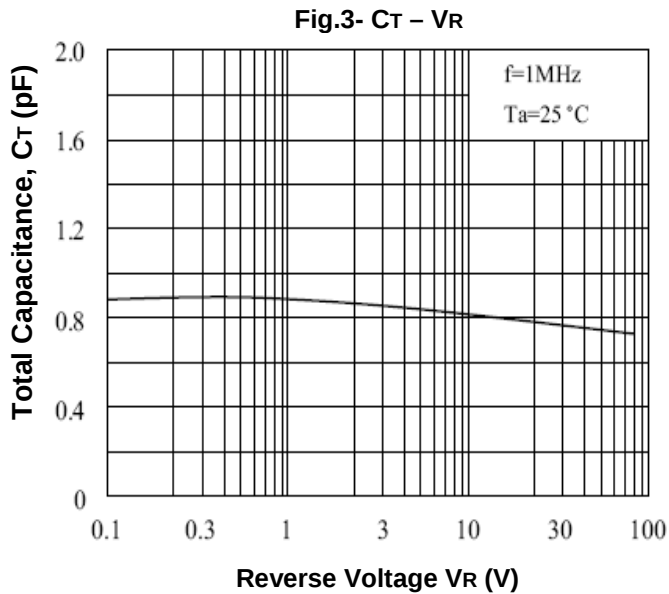
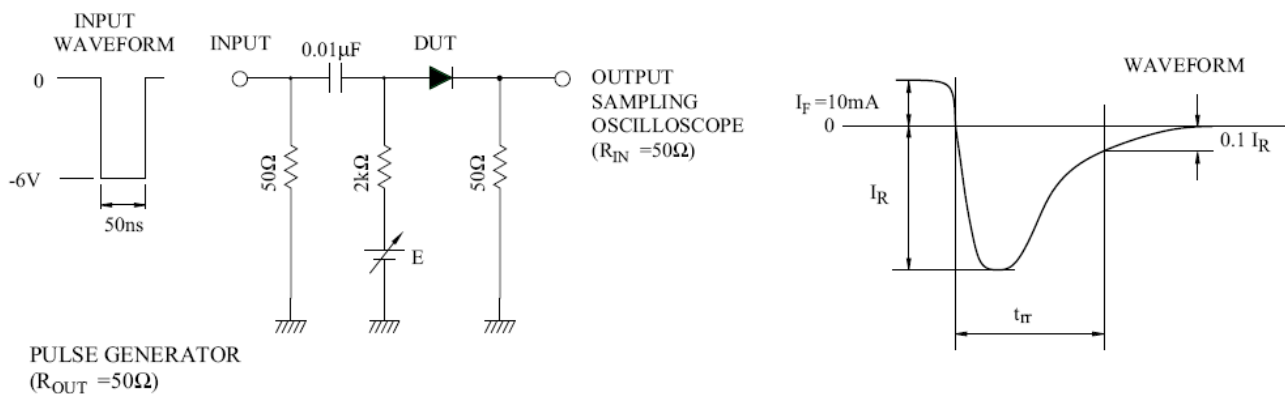
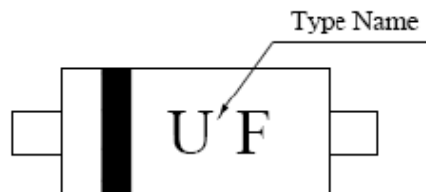


Fig. 1. REVERSE RECOVERY TIME(t_{rr}) TEST CIRCUIT



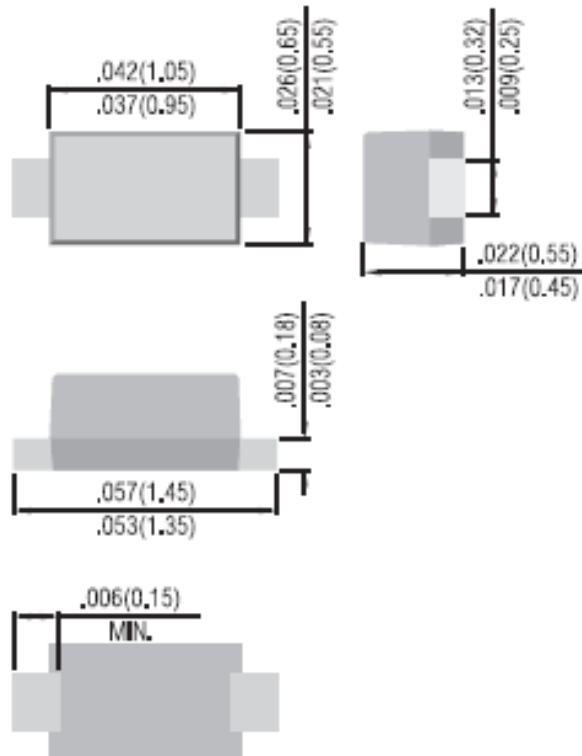
Marking Information:



Two Terminals SMD Switching Diode

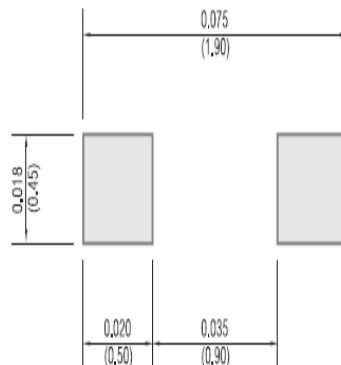
TWD4148-160WU

Dimensions in inch (mm)



SOD-723

Mounting Pad Layout in inch (mm)



Two Terminals SMD Switching Diode

TWD4148-160WU

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