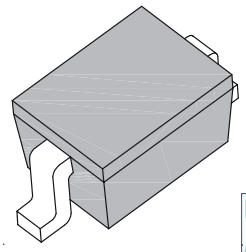
Two Terminals SMD Switching Diode



SOD-323

RoHS Compliant

Features

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

Mechanical Data

Case:	SOD-323, Plastic Case
Terminals:	Solderable per MIL-STD-750, Method 2026
Polarity:	Color band denotes cathode end
Weight:	Approx. 0.0041 gram

Maximum Ratings *($T_{Ambient}$=25ºC unless noted otherwise)*

Symbol	Description	TWD4148-160WS	Unit	Conditions
	Marking Code	UF		
V_{RM}	Max. 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=10mS	2.0	A	
P_D	Power Dissipation	200	mW	Note
T_J	Junction Temperature	150	° C	
T_{STG}	Storage Temperature Range	-55 to +150	° C	

Note: Mounted on a glass epoxy circuit board of 20x20mm, pad dimension of 4x4mm.

Electrical Characteristics *(T Ambient=25ºC 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	1.20		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

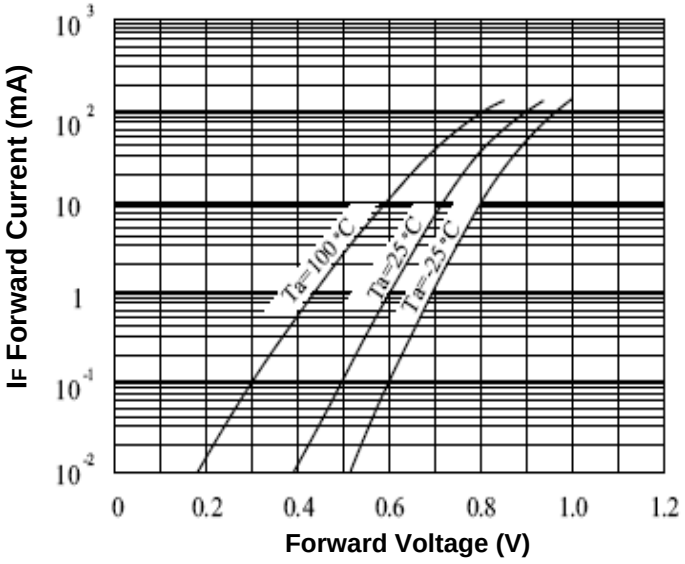


Fig.2- Typical Instantaneous Reverse Characteristics Curve

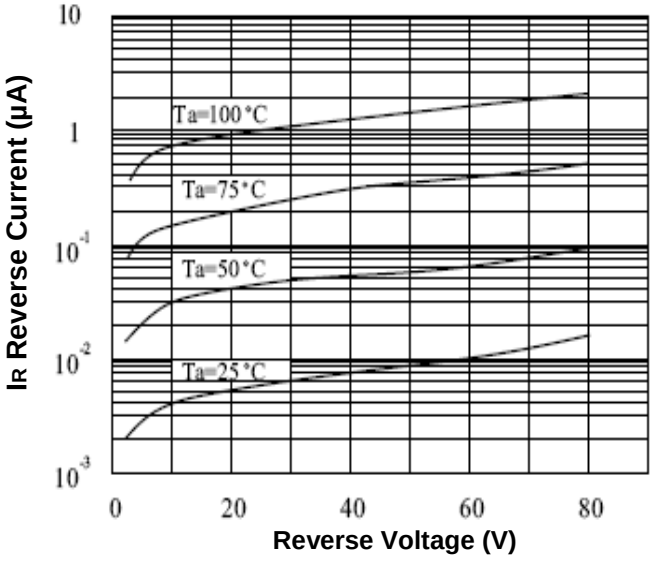


Fig.3- C_T – V_R

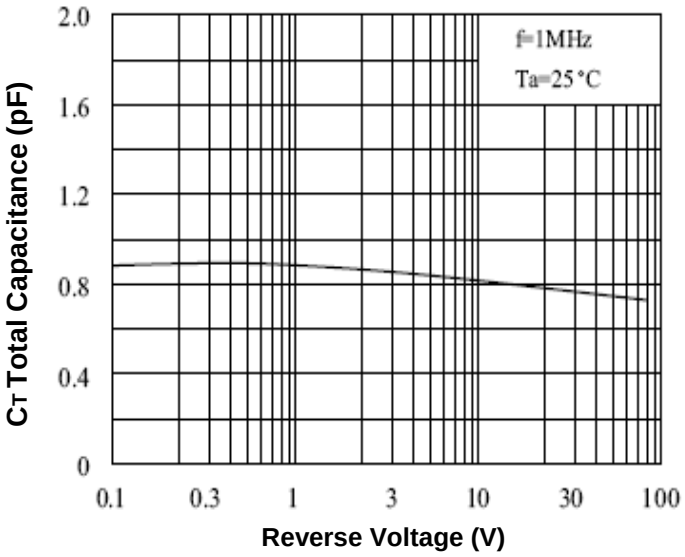


Fig.4- T_{rr} – I_F

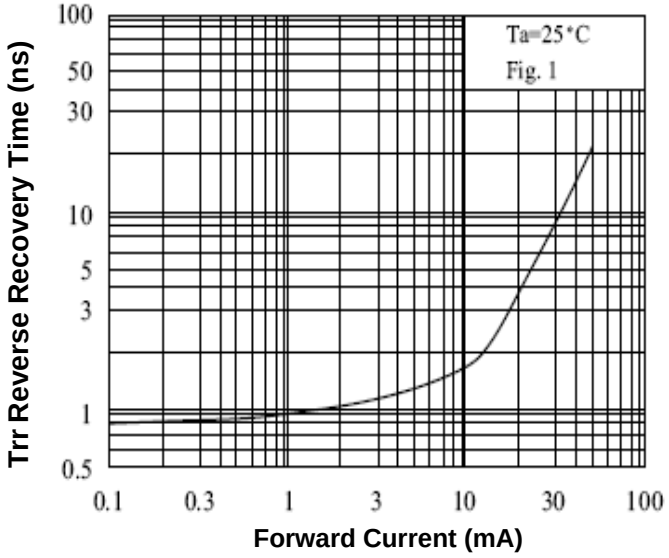
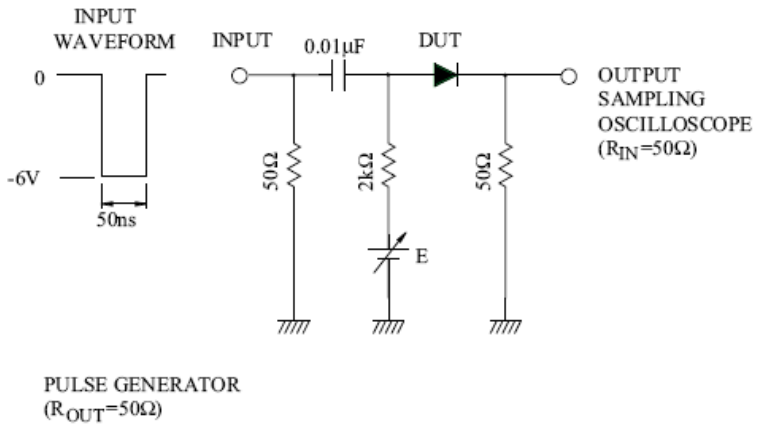
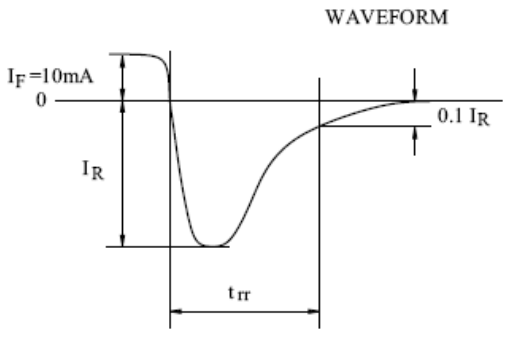


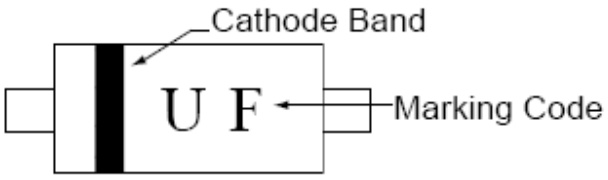
Fig. 1. REVERSE RECOVERY TIME(t_{rr}) TEST CIRCUIT



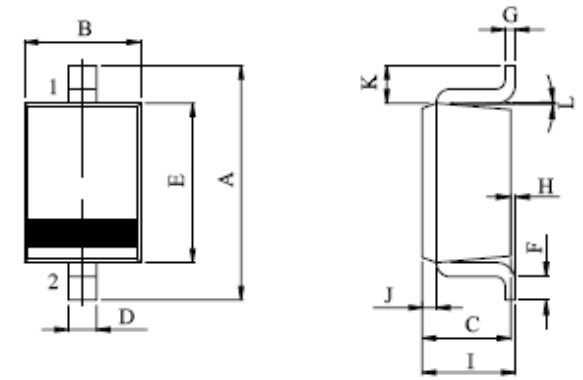


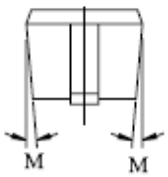
TWD4148-160WS

Marking Information:



Dimensions in mm





1. ANODE
2. CATHODE

DIM	MILLIMETERS
A	2.50±0.1
B	1.25±0.05
C	0.90±0.05
D	0.30+0.06/-0.04
E	1.70±0.05
F	MIN 0.17
G	0.126±0.03
H	0~0.1
I	1.0 MAX
J	0.15±0.05
K	0.4±0.05
L	2°+4/-2
M	4~6°

SOD-323

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