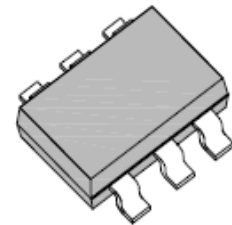


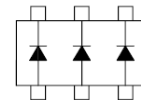
Multiple Terminals SMD Switching Diode

Features

- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- High Conductance
- RoHS compliant



SOT-363



Mechanical Data

Case:	SOT-363, Plastic Case
Terminals:	Solderable per MIL-STD-750, Method 2026
Weight:	Approx. 0.006 gram

Maximum Ratings & Electrical Characteristics (T_{Ambient}=25°C unless noted otherwise)

Symbol	Description	TWG4148T-16WS	Unit	Conditions
	Marking Code	16T		
V_{RM}	Reverse Voltage	75	V	
V_RRM	Peak Reverse Voltage	100	V	
V_{RMS}	RMS Voltage	50	V	
V_{DC}	Max. DC Blocking Voltage	75	mV	
I_{F(AV)}	Max. Forward Average Current at T _A =25° C	150	mA	
I_{FSM}	Peak Forward Surge Current, Pulse Width=1.0us	2.0	A	
P_D	Power Dissipation Derate above 25° C	200	mW	
V_F	Max. Forward Voltage	0.715	V	IF=1mA
		0.855		IF=10mA
		1.0		IF=50mA
		1.25		IF=150mA
I_R	Max. DC Reverse Current at Rated DC Blocking Voltage T _j =25° C	0.03	μA	V _R =25V
		2.5		V _R =75V
C_J	Junction Capacitance	1.5	pF	V _R =0V, f=1MHz
T_{rr}	Max. Reverse Recovery Time	4.0	ns	IF=10mA, I _R =1mA, V _R =6V, R _L =100Ω
R_{thJA}	Max. Thermal Resistance	625	° C/W	
T_J	Storage Temperature Range	-55 to +150	° C	

Multiple Terminals SMD Switching Diode

TWG4148T-16WS

Typical Characteristics Curves

Fig.1- Forward Power Dissipation Derating Curve

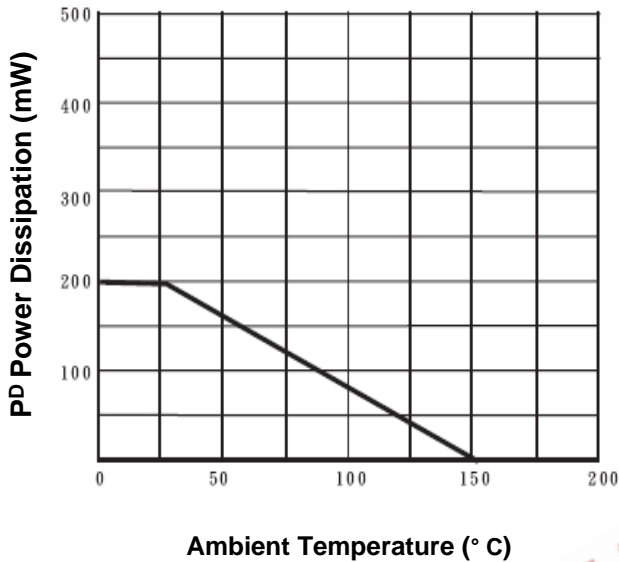


Fig.2- Typical Instantaneous Forward Characteristics

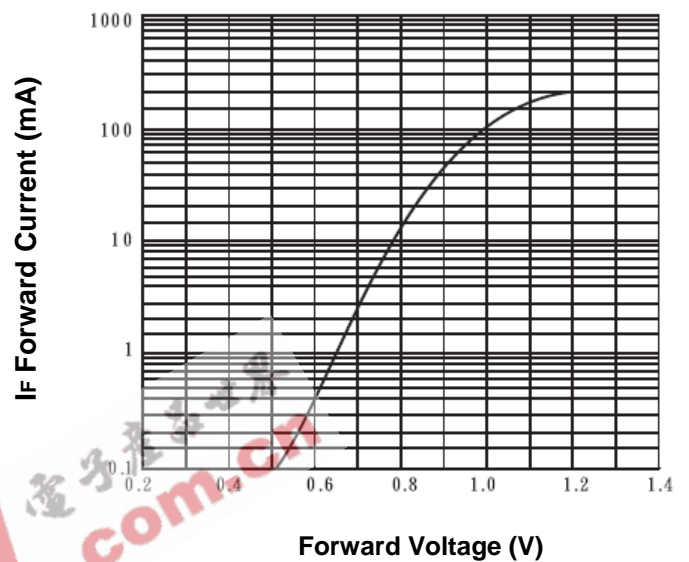
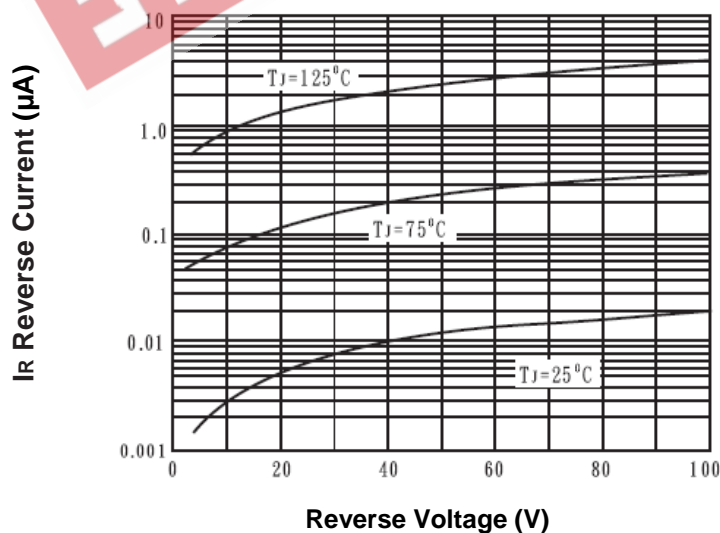


Fig.3- Typical Instantaneous Reverse Characteristics

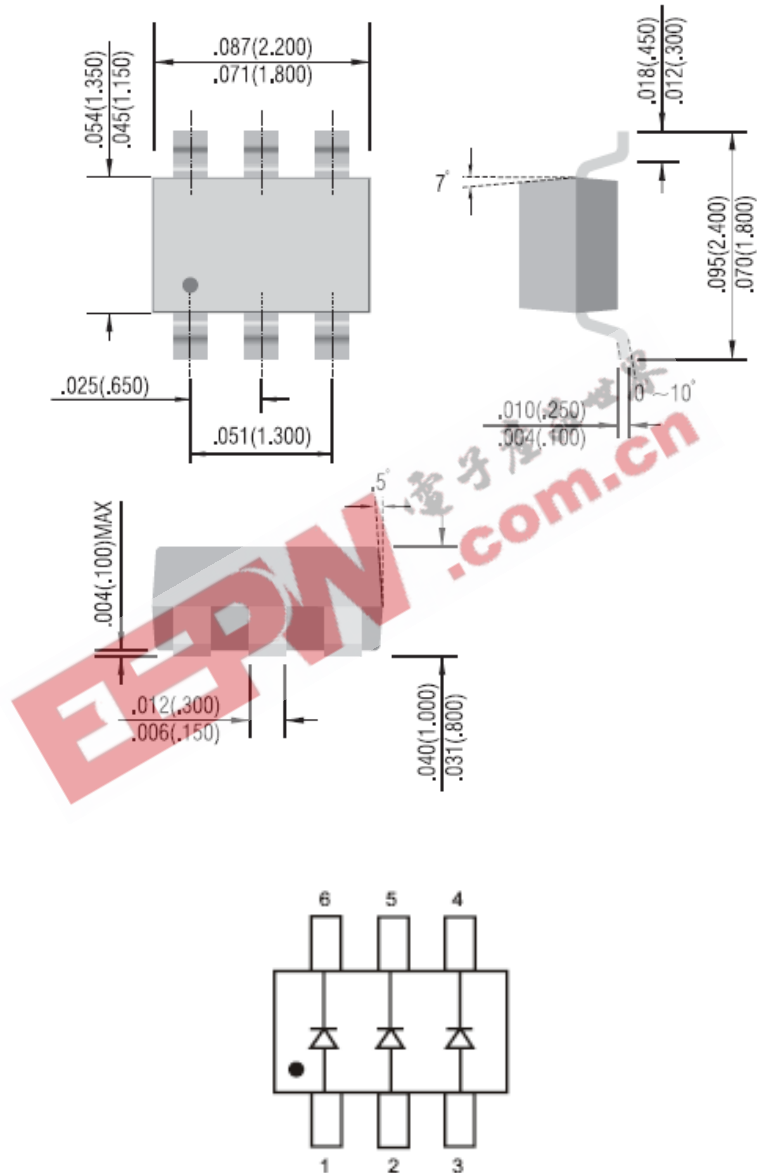


Multiple Terminals SMD Switching Diode

TWG4148T-16WS

Dimensions in inch (mm)

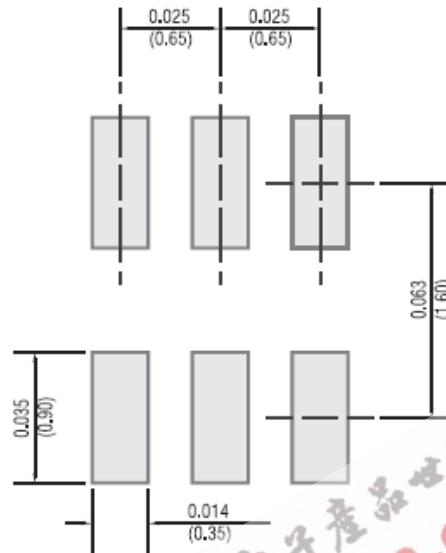
SOT-363



Multiple Terminals SMD Switching Diode

TWG4148T-16WS

Mounting Pad Layout in inch (mm)



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