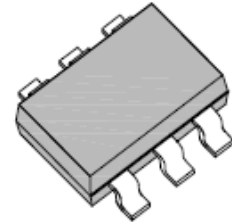


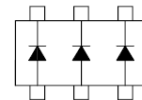
**Multiple Terminals SMD Switching Diode**

**Features**

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



**SOT-363**



**Mechanical Data**

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

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

Symbol	Description	TWG4148T-16WS	Unit	Conditions
	Marking Code	16T		
<b>VRM</b>	Reverse Voltage	75	V	
<b>VRRM</b>	Peak Reverse Voltage	100	V	
<b>VRMS</b>	RMS Voltage	50	V	
<b>VDC</b>	Max. DC Blocking Voltage	75	mA	
<b>IF(AV)</b>	Max. Forward Average Current at $T_A=25^{\circ}C$	150	mA	
<b>IFSM</b>	Peak Forward Surge Current, Pulse Width=1.0us	2.0	A	
<b>PD</b>	Power Dissipation Derate above $25^{\circ}C$	200	mW	
<b>VF</b>	Max. Forward Voltage	0.715	V	IF=1mA
		0.855		IF=10mA
		1.0		IF=50mA
		1.25		IF=150mA
<b>IR</b>	Max. DC Reverse Current at Rated DC Blocking Voltage $T_j=25^{\circ}C$	0.03	$\mu A$	VR=25V
		2.5		VR=75V
<b>CJ</b>	Junction Capacitance	1.5	pF	VR=0V, f=1MHz
<b>Trr</b>	Max. Reverse Recovery Time	4.0	ns	IF=10mA, IR=1mA, VR=6V, RL=100 $\Omega$
<b>RthJA</b>	Max. Thermal Resistance	625	$^{\circ}C/W$	
<b>TJ</b>	Storage Temperature Range	-55 to +150	$^{\circ}C$	

# Multiple Terminals SMD Switching Diode

## TWG4148T-16WS

### Typical Characteristics Curves

Fig.1- Forward Power Dissipation Derating Curve

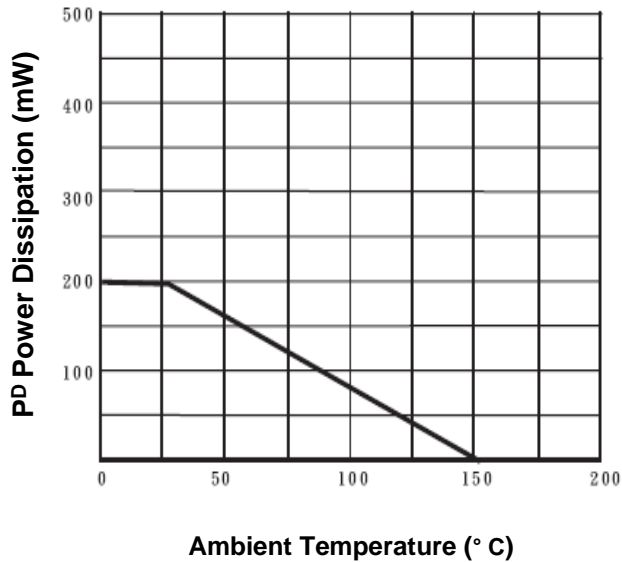


Fig.2- Typical Instantaneous Forward Characteristics

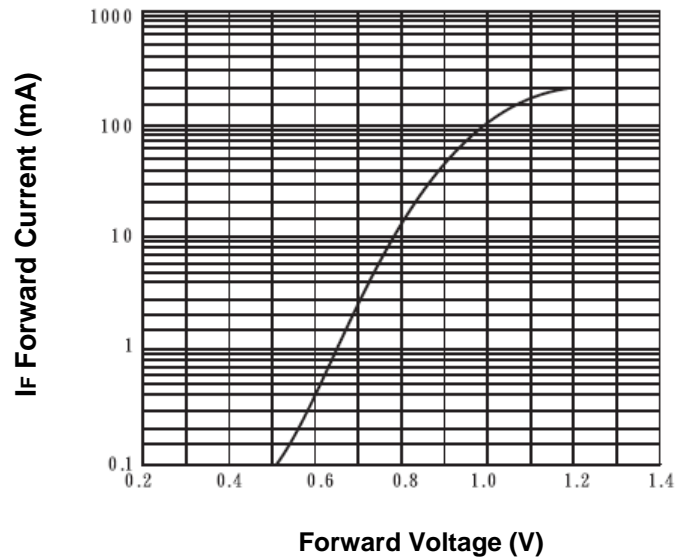
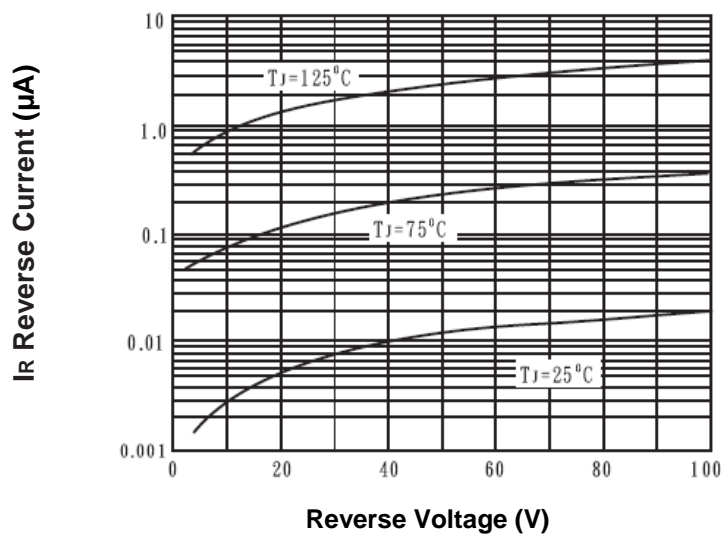


Fig.3- Typical Instantaneous Reverse Characteristics

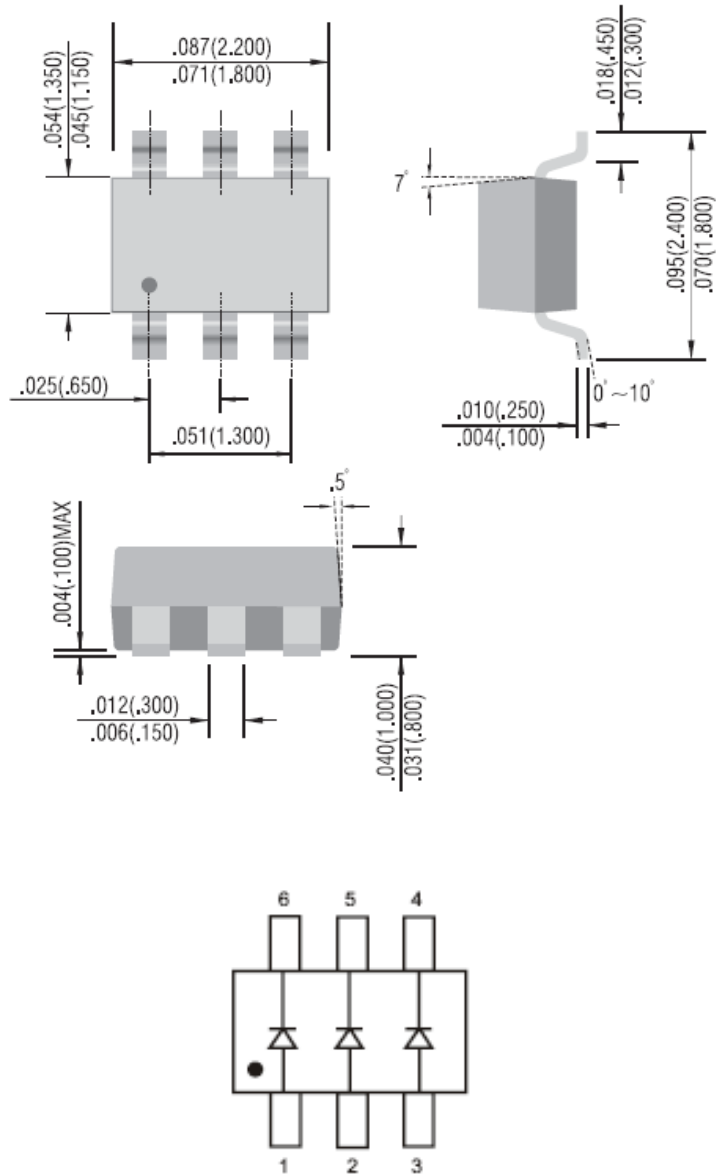


# Multiple Terminals SMD Switching Diode

## TWG4148T-16WS

Dimensions in inch (mm)

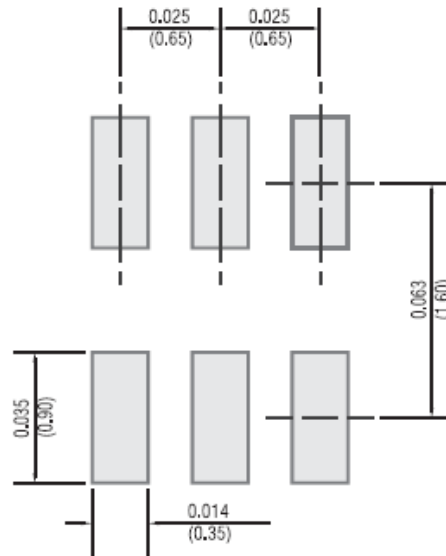
SOT-363



## Multiple Terminals SMD Switching Diode

TWG4148T-16WS

### Mounting Pad Layout in inch (mm)



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