

SURFACE MOUNT FAST SWITCHING DIODE

FEATURES

- Fast switching device (Trr < 4.0 ns)
- Extremely Small SOD-523F Package
- Flat Lead SOD-523F Small Outline Plastic Package
- Surface device type mounting
- General Purpose Diodes
- Green EMC
- Matte Tin(Sn) Lead Finish
- RoHS compliant
- Band Indicates Cathode

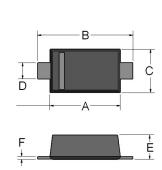
MECHANICAL DATA

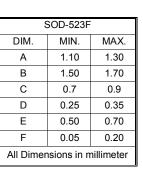
• Polarity: Color band denotes cathode

1N4148WTF / 1N4448WTF

REVERSE VOLTAGE – 75 Volts FORWARD CURRENT – 0.15 Ampere

<u>SOD-523F</u>





Maximum Ratings & Thermal Characteristics @ $T_A = 25^{\circ}C$ unless otherwise specified

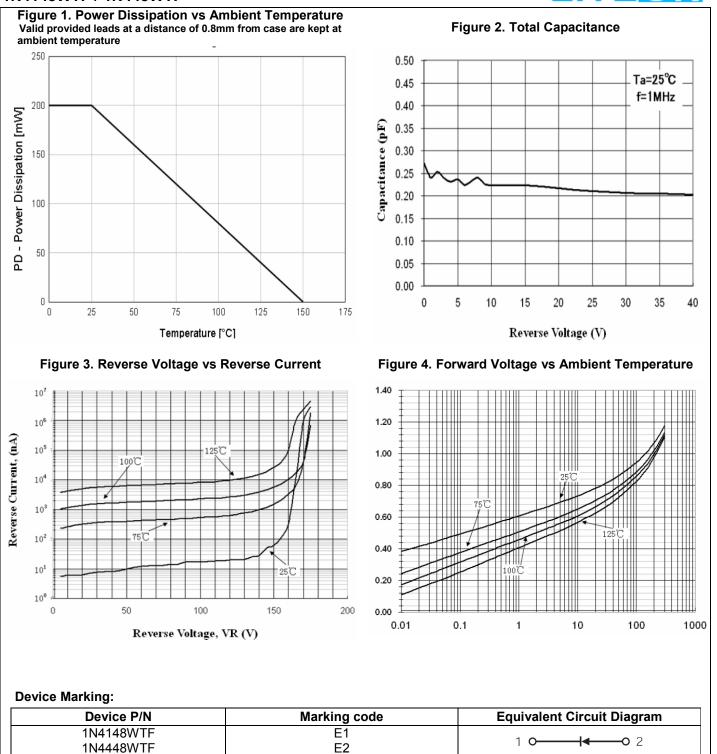
Characteristic	Symbol	1N4148WTF	1N4448WTF	Units
Repetitive Peak Reverse Voltage	VRRM	75		V
Repetitive Peak Forward Current	I _{FRM}	300		mA
Average Rectified Output Current	lo	150		mA
Power Dissipation	PD	200		mW
Operating Temperature Range	TJ	+150		°C
Storage Temperature Range	T _{STG}	-55~+150		°C
Non-Repetitive Peak Reverse Voltage	VRSM	100		V

Electrical Characteristics @ $T_A = 25^{\circ}C$ unless otherwise specified

Characteristic	Test Condition	Symbol	1N4148WTF	1N4448WTF	Unit
Breakdown voltage	IR=100uA IR=5uA	BV	100 75		V
Maximum Forward Voltage	$I_F = 5mA$ $I_F = 10mA$ $I_F = 100mA$	V _F	- 1000 -	720 - 1000	mV
Maximum DC Reverse Current at Rated DC Blocking Voltage	V _R = 75V V _R = 20V	I _R	5 25		uA nA
Typical Diode Capacitance	V _R =0V,f=1MHz	CD	4		pF
Reverse Recovery time	$I_{F}=10mA,$ $I_{R}=60mA$ $R_{L}=100\Omega$ $I_{RR}=1mA,$	trr	4		ns

REV. 0, Aug-2011, KSYR86

RATING AND CHARACTERISTIC CURVES 1N4148WTF / 1N448WTF



TEON



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