

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

1N4148WT

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT SWITCHING DIODE VOLTAGE RANGE -100 Volts CURRENT - 0.15 Ampere

FEATURES

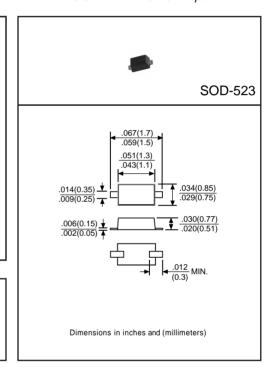
- * Fast switching speed
- * Surface mount package ideally suited for automatic insertion
- * Low reverse current
- * High conductance

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Terminals: Solder plated, solderable per
 - MIL-STD-750, Method 2026 guaranteed
- * Mounting position: Any
- * Weight: 0.0014 grams Approx.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.



	SYMBOL	1N4148WT	UNITS
Maximum Reverse Voltage	VR	75	V
Maximum Non-Reprtitive Peak Reverse Voltage	VRM	100	V
Maximum Average Rectified Current	lo	150	mA
Peak Forward Surge Current @T=1μs	IFSM	2.0	A
Maximum Power Dissipation @TA=25°C	Ptot	150	mW
Maximum Forward Voltage	VF	0.715 @ 1mA 1.25 @ 150mA	V
Maximum Reverse Current (@VR=VR Max, TA=25°C)	lR	1.0	μА
Maximum Reverse Recovery Time(Note 1)	trr	4.0	ns
Typical Junction Capacitance(Note 2)	CJ	2.0	pF
Typical Thermal Resistance	Rеја	833	°C/W
Operating and Storage Temperature Range	TJ,TSTG	-55 to +150	°C

Note: 1. Test conditions: IF=IR=10mA, RL=100Ω, measured at IR=1mA

2. Measured at 1MHz and VR=0

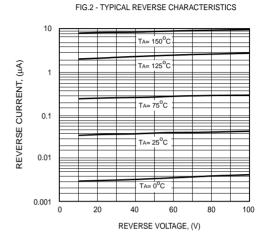
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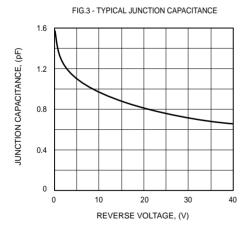
RATING AND CHARACTERISTIC CURVES (1N4148WT)

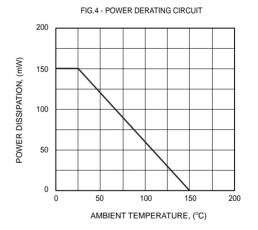
FIG.1 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

TODAY

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