

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

1N4148W THRU 1N4448W

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT SWITCHING DIODE VOLTAGE RANGE -50 to 100 Volts CURRENT - 0.15 to 0.2 Ampere

FEATURES

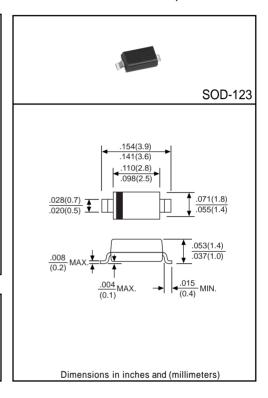
- * Low power loss, high efficiency
- * Low leakage
- * Low forward voltage drop
- * High speed switching
- * High current capability
- * High reliability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Terminals: Solder plated, solderable per
 - MIL-STD-202E, Method 208 guaranteed
- * Mounting position: Any
- * Weight: 0.008 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	1N4148W	1N4150W	1N4151W	1N4448W	UNITS
Maximum DC Blocking Voltage	VDC	75	50	50	75	V
Maximum Recurrent Peak Reverse Voltage	VRRM	100	50	75	100	V
Maximum Average Rectified Current	lo	150	200	150	150	mA
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	2.0	2.0 0.5		4.0	А
Maximum Power Dissipation Tamb=25°C	Ptot	410				mW
Maximum Forward Voltage	VF	1.0 / 50mA	1.0 / 200mA	1.0 / 10mA	0.72 / 5mA 1.0 / 100mA	V
Maximum Reverse Current at Rated DC Blocking Voltage @ TA=25°C	lr	2.5	0.1	0.05	2.5	μΑ
Maximum Reverse Recovery Time(Note 1)	trr	4.0		2.0	4.0	ns
Typical Junction Capacitance(Note 2)	CJ	4.0		2.0	4.0	pF
Operating and Storage Temperature Range	TJ,TSTG	-55 to + 125				°C

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

2. Measured at 1MHz and VR=0

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RATING AND CHARACTERISTIC CURVES (1N4148W THRU 1N4448W)

FIG.1 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

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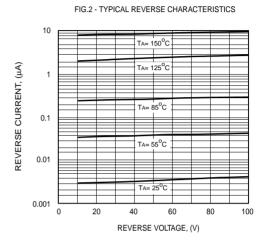
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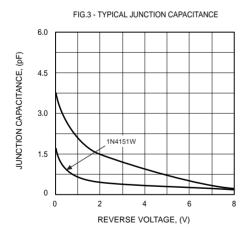
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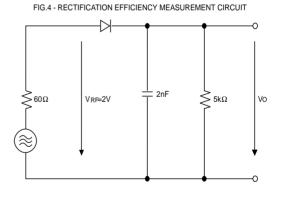
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