1N4148WS AND 1N4448WS

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT SWITCHING DIODE

VOLTAGE - 100 Volts

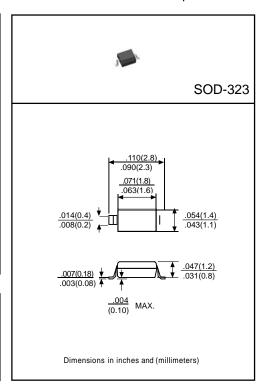
CURRENT - 0.15 Ampere

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 $^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

	SYMBOL	1N4148WS	1N4448WS	UNITS
Maximum DC Blocking Voltage	VDC	75		V
Maximum Recurrent Peak Reverse Voltage	VRRM	100		V
Maximum Average Rectified Current	lo	150		mA
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	2.0	4.0	А
Maximum Power Dissipation Tamb=25°C	Ptot	200		mW
Maximum Forward Voltage	VF	1.0 / 50mA	0.72 / 5mA 1.0 / 100mA	٧
Maximum Reverse Current at Rated DC Blocking Voltage @ TA=25°C	lr	2.5		μА
Maximum Reverse Recovery Time(Note 1)	trr	4.0		ns
Typical Junction Capacitance(Note 2)	Cı	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

RATING AND CHARACTERISTIC CURVES (1N4148WS AND 1N4448WS)

