



DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

1N4148WS

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

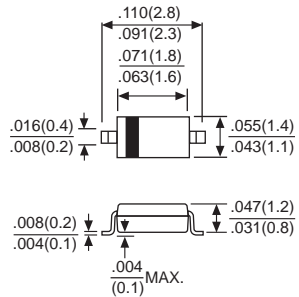
- * Case: Molded plastic
- * Epoxy: UL94V-0 rate flame retardant
- * Terminals: Solder plated, solderable per MIL-STD-202E, Method 208 guaranteed
- * Mounting position: Any
- * Weight: 0.008 grams Approx.

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%.



SOD-323



Dimensions in inches(millimeters)

	SYMBOL	1N4148WS	1N4448WS	UNITS
Maximum Reverse Voltage	VR		75	V
Maximum Non-Reprtive Peak Reverse Voltage	VRM		100	V
Maximum Average Rectified Current	Io		150	mA
Peak Forward Surge Current @T=1μs	IFSM	2.0	4.0	A
Maximum Power Dissipation @TA=25°C	Ptot		200	mW
Maximum Forward Voltage	VF	1.0 / 50mA	0.72 / 5mA 1.0 / 100mA	V
Maximum Reverse Current (@VR=VR Max, TA=25°C)	IR		5.0	μA
Maximum Reverse Recovery Time(Note 1)	trr		4.0	ns
Typical Junction Capacitance(Note 2)	CJ		4.0	pF
Typical Thermal Resistance	RθJA		635	°C/W
Operating and Storage Temperature Range	TJ,TSTG		-55 to +125	°C

Note: 1. Test conditions: IF=IR=10mA, RL=100Ω, measured at IR=1mA
 2. Measured at 1MHz and VR=0

RATING AND CHARACTERISTIC CURVES (1N4148WS AND 1N4448WS)

FIG.1 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

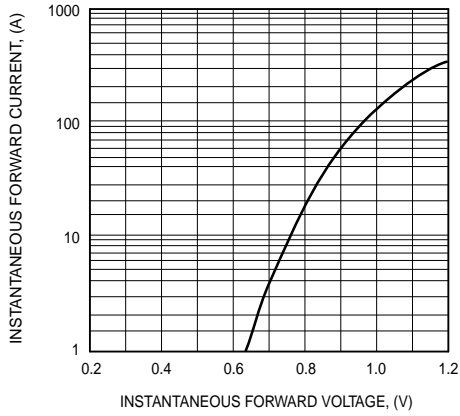


FIG.2 - TYPICAL REVERSE CHARACTERISTICS

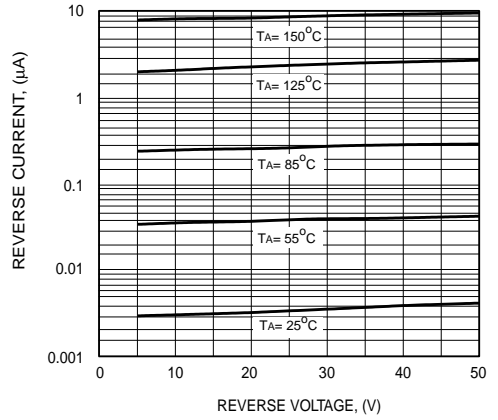
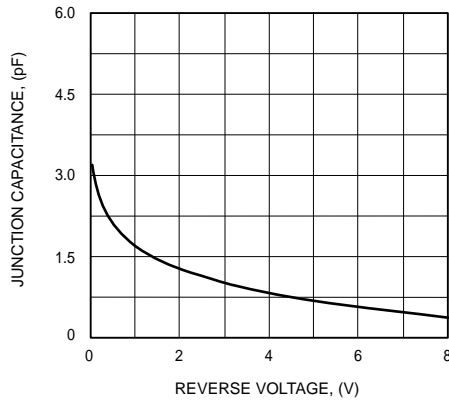


FIG.3 - TYPICAL JUNCTION CAPACITANCE



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