

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

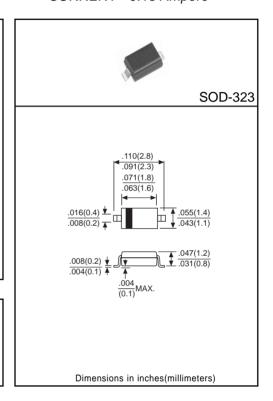
MIL-STD-202E, Method 208 guaranteed

* 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%.



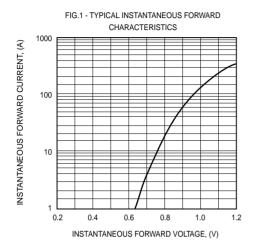
	SYMBOL	1N4148WS	1N4448WS	UNITS
Maximum Reverse Voltage	VR	75		V
Maximum Non-Reprtitive Peak Reverse Voltage	VRM	100		V
Maximum Average Rectified Current	lo	150		mA
Peak Forward Surge Current @T=1μs	IFSM	2.0	4.0	A
Maximum Power Dissipation @TA=25°C	Ptot	200		mW
Maximum Forward Voltage	VF	1.0 / 50mA	0.72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

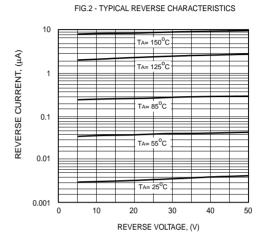
Note: 1. Test conditions: IF=IR=10mA, RL=100 Ω , measured at IR=1mA

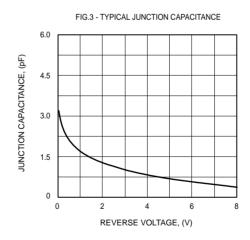
2. Measured at 1MHz and VR=0

REV-3,MAR,2017 1 www.dccomponents.com

RATING AND CHARACTERISTIC CURVES (1N4148WS AND 1N4448WS)







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