



DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

1N914WS

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT SWITCHING DIODE

VOLTAGE - 100 Volts

CURRENT - 0.075 Ampere

FEATURES

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

MECHANICAL DATA

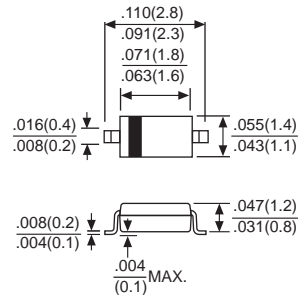
- * Case: Molded plastic
- * Epoxy: UL94V-0 rate flame retardant
- * Terminals: Solder plated, solderable per MIL-STD-202E, Method 208 guaranteed
- * Mounting position: Any
- * Weight: 0.008 grams Approx.

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	1N914WS	UNITS
Maximum Reverse Voltage	V _R	75	V
Maximum Non-Reprtitive Peak Reverse Voltage	V _{RM}	100	V
Maximum Average Rectified Current	I _o	75	mA
Peak Forward Surge Current @T=1μs	I _{FSM}	10	mA
Maximum Power Dissipation @TA=25°C	P _{tot}	200	mW
Maximum Forward Voltage	V _F	1.0	V
Maximum Reverse Current (@V _R =V _R Max, TA=25°C)	I _R	5000	μA
Maximum Reverse Recovery Time	t _{rr}	4.0	nS
Typical Junction Capacitance	C _J	4.0	pF
Typical Thermal Resistance	R _{θJA}	635	°C/W
Operating and Storage Temperature Range	T _J ,T _{STG}	-55 to +175	°C

RATING AND CHARACTERISTIC CURVES (1N914WS)

FIG.1 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

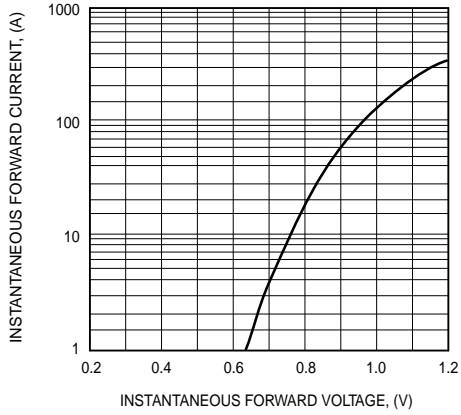


FIG.2 - TYPICAL REVERSE CHARACTERISTICS

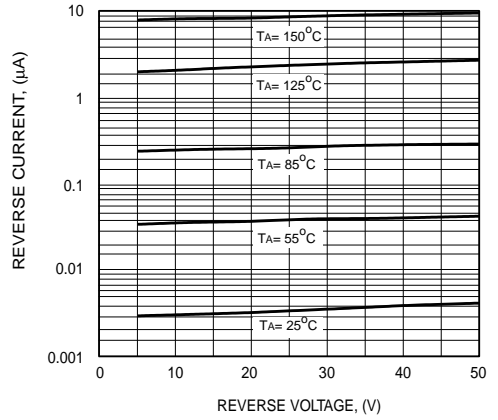
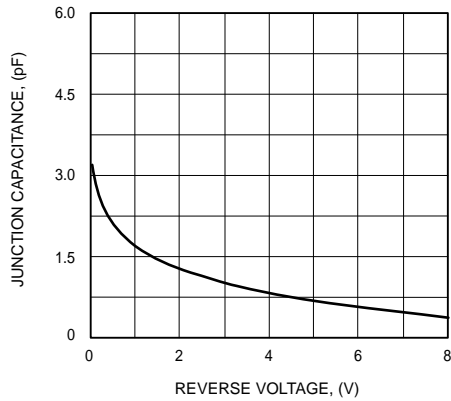


FIG.3 - TYPICAL JUNCTION CAPACITANCE



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