

SMALL SIGNAL DIODE

VOLTAGE RANGE 75 Volts CURRENT 250 mAmpere

FEATURES

- * Fast Switching Speed
- * Surface Mount Package Ideally Suited for Automatic Insertion
- * For General Purpose Switching Applications
- * High Conductance

MECHANICAL DATA

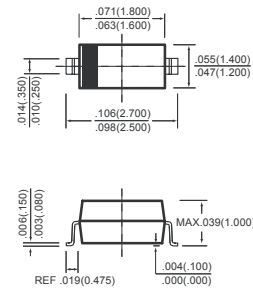
- * Case: Molded plastic
- * Epoxy: UL 94V-O rate flame retardant
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 0.004 grams

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 and (millimeters)

MAXIMUM RATINGS (@T_A=25°C unless otherwise noted)

RATINGS	SYMBOL	1N4448WS	UNITS
Non-Repetitive Peak Reverse Voltage	V _{RM}	100	Volts
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	75	Volts
Maximum Working Peak reverse Voltage	V _{RWM}		
Maximum DC Blocking Voltage	V _R		
Maximum RMS Voltage	V _{RMS}	53	Volts
Maximum Forward Continuous Current	I _{FM}	500	mAmps
Maximum Average Forward Rectified Current	I _O	250	mAmps
Non-Repetitive Peak Forward Surge Current	I _{FSM}	@t=1.0uS	4.0
		@t=1.0S	2.0
Typical Reverse Recovery Time	T _{rr}	4	nS
Typical Junction Capacitance	C _J	4	pF
Maximum Power Dissipation	P _D	200	mW
Typical Thermal Resistance	R _{θJA}	315	°C/W
Operating and Storage Temperature Range	T _J ,T _{STG}	-65 to + 150	°C

ELECTRICAL CHARACTERISTICS (@T_A=25°C unless otherwise noted)

CHARACTERISTICS	SYMBOL	1N4448WS	UNITS
Maximum Instantaneous Forward Voltage	V _F	@IF=1.0mA	0.715
		@IF=10mA	0.855
		@IF=50mA	1.0
		@IF=150mA	1.25
Maximum Instantaneous Peverse Current	I _R	@VR=20V	25
		@VR=75V	2.5

NOTE : "Fully ROHS Compliant", "100% Sn plating (Pb-free)".

VC 2008-02

RATING AND CHARACTERISTICS CURVES (1N4448WS)

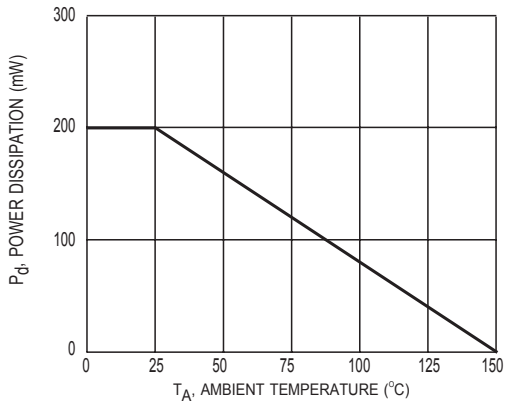


Figure.1 Power Derating Curve

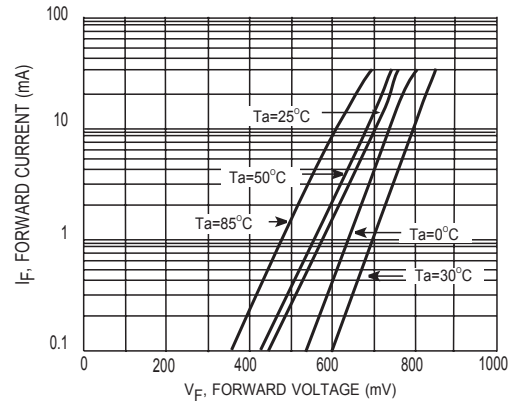


Figure.2 Typical Forward Characteristics

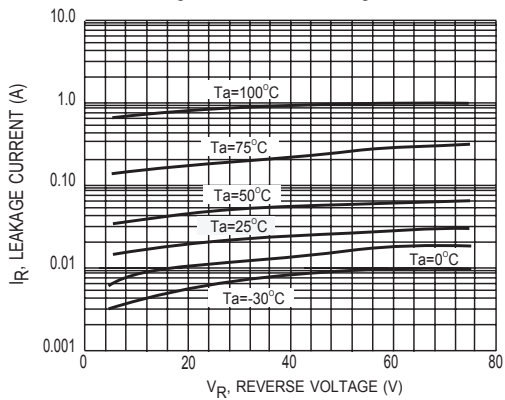


Figure.3 Typical Reverse Characteristics

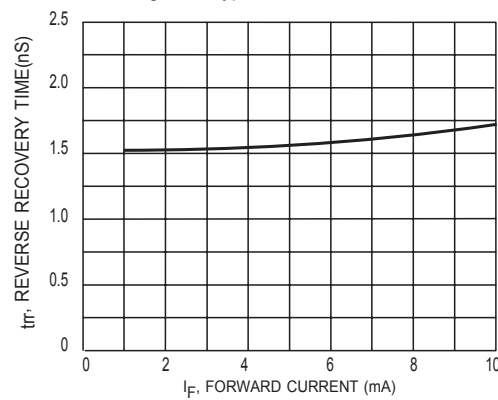


Figure.4 Reverse Recovery Time vs Forward Current

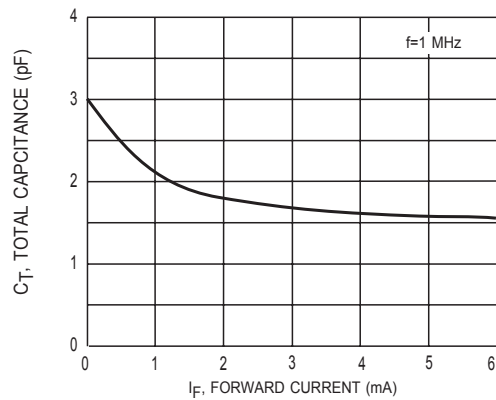


Figure.5 Total Capacitance vs Reverse Voltage

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