

SMALL SIGNAL DIODE

VOLTAGE RANGE 75Volts CURRENT 250mAmpere

FEATURES

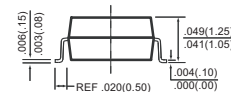
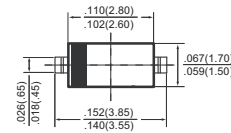
- * Fast Switching Speed
- * Surface mount Package Ideally Suited for Automatic Insertion
- * For General Purpose Switching Applications
- * High Conductance
- * P/N suffix V means AEC-Q101 qualified, e.g:1N4448WV
- * P/N suffix V means Halogen-free

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-O rate flame retardant
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 0.01 gram
- * Marking:T5



SOD-123



Dimensions in inches and (millimeters)

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%.

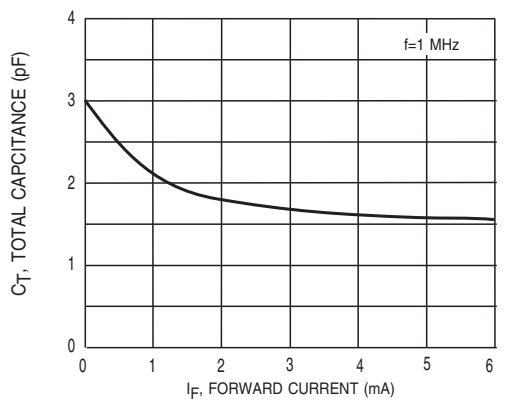
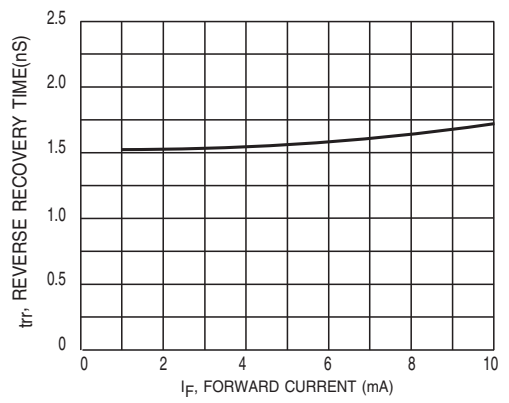
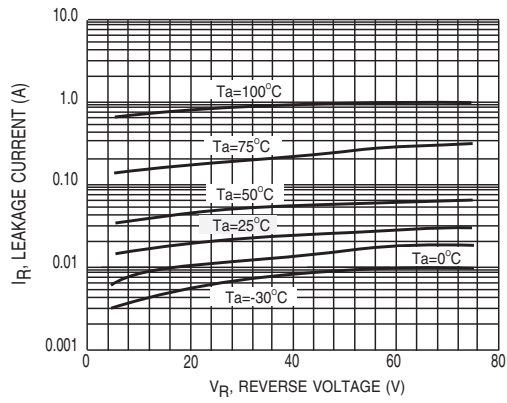
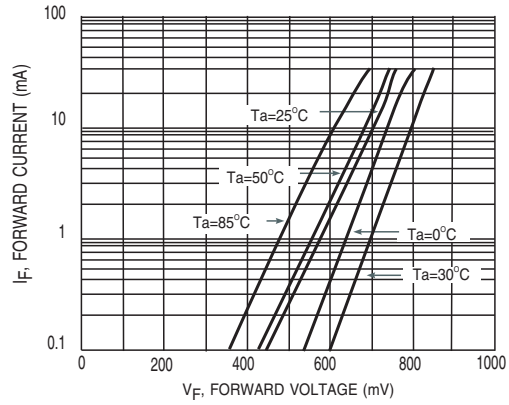
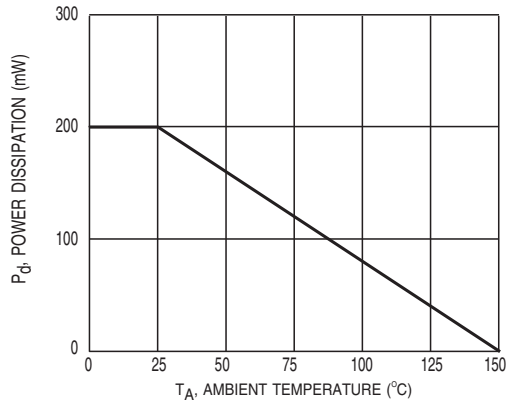
MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)

| RATINGS | SYMBOL | 1N4448WV | UNITS |
|---|------------------|--------------|-------|
| Non-Repetitive Peak Reverse Voltage | VRM | 100 | Volts |
| Maximum Repetitive Peak Reverse Voltage | VRRM | 75 | Volts |
| Maximum Working Peak reverse Voltage | VRWM | | |
| Maximum DC Blocking Voltage | VR | | |
| Maximum RMS Voltage | VRMS | 53 | Volts |
| Maximum Forward Continuous Current | IFM | 500 | mAmps |
| Maximum Average Forward Rectified Current | IO | 250 | mAmps |
| Non-Repetitive Peak Forward Surge Current | IFSM | @t=1.0uS | 4.0 |
| | | @t=1.0S | 2.0 |
| Typical Current Squared Time | i ² T | | 0.07 |
| | | | 0.02 |
| Typical Reverse Recovery Time | Trr | 4 | nS |
| Typical Junction Capacitance | CT | 4 | pF |
| Maximum Power Dissipation | PD | 400 | mW |
| Typical Thermal Resistance | RθJA | 315 | °C/W |
| Operating and Storage Temperature Range | TJ, TSTG | -65 to + 150 | °C |

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

| CHARACTERISTICS | SYMBOL | 1N4448WV | UNITS |
|---------------------------------------|--------|-----------|-------|
| Maximum Instantaneous Forward Voltage | VF | @IF=1.0mA | 0.715 |
| | | @IF=10mA | 0.855 |
| | | @IF=50mA | 1.0 |
| | | @IF=150mA | 1.25 |
| Maximum Instantaneous Reverse Current | Ir | @VR=20V | 25 |
| | | @VR=75V | 2.5 |

RATING AND CHARACTERISTICS CURVES (1N4448WV)



PACKAGING OF DIODE

REEL PACK

| PACKAGE | PACKING CODE | REEL (EA) | COMPONENT SPACE(mm) | TAPE SPACE (mm) | REEL DIA (mm) | CARTON SIZE (mm) | EA PER CARTON | GROSS WEIGHT(Kg) |
|---------|--------------|-------------|---------------------|-----------------|---------------|------------------|---------------|------------------|
| SOD-123 | -T | 3,000 | --- | --- | 178 | 390*205*310 | 120,000 | 5.29 |

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