

SD101AW -

SMALL SIGNAL DIODE

VOLTAGE RANGE 60 Volts

FEATURES

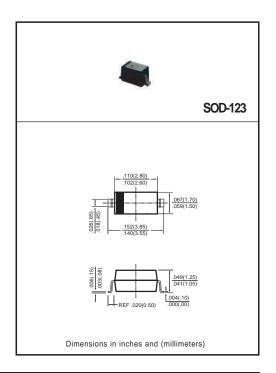
- * Low Forward Voltage Drop
- * Guard Ring Construction for Transient Protection
- * Negligible Reverse Recovery Time

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

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%.



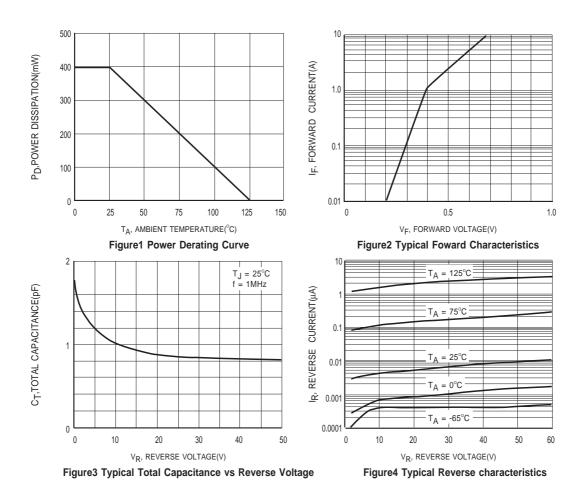
MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)

| RATINGS | | SYMBOL | SD101AW | UNITS |
|--|--------------------|----------------------------------|--------------|---------------|
| Maximum Repetitive Peak Reverse Voltage Maximum Working Peak reverse Voltage Maximum DC Blocking Voltage | | VRRM VRWM VR | 60 | Volts |
| Maximum RMS Voltage | | V _{RMS} | 42 | Volts |
| Maximum Reverse Breakdown Voltage(IR=10μA) | | V(_{BR)R} | 60 | Volts |
| Forward Continuous Current | | I _{FM} | 15 | mAmps |
| Non-Repetitive Peak Forward Surge Current | @t<1.0s @t=10μs | I _{FSM} | 50 2.0 | mAmps Amps |
| Typical Reverse Recovery Time(I _F =I _R =5mA,I _{II} =0.1X _{IR} ,R _L =100Ω) | | Trr | 1.0 | nS |
| Typical Junction Capacitance(V _R =0V,f=1MHz) | | C _T | 2.0 | pF |
| Maximum Power Dissipation | | P _D | 400 | mW |
| Typical Thermal Resistance | | R _{⊖JA} | 300 | °C/W |
| Operating and Storage Temperature Range | | T _J ,T _{STG} | -65 to + 125 | °C |

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

| ı | CHARACTERISTICS | | SYMBOL | SD101AW | UNITS |
|---|---------------------------------------|------------------------|----------------|---------|-------|
| ſ | Maximum Instantaneous Forward Voltage | @I _F =1.0mA | V _F | 0.41 | Volts |
| | | @I _F =15mA | | 1.00 | |
| ı | Maximum Instantaneous Reverse Current | @V _R =50V | I _R | 0.2 | uAmps |

RATING AND CHARACTERISTICS CURVES (SD101AW)



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