SR1D-E

SINTERED GLASS JUNCTION SURFACE MOUNTED RECTIFIER GE: 200V CURRENT: 1.0A

VOLTAGE: 200V

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MECHANICAL DATA

Terminal: Solder plated, solderable per MIL-STD 202, method 208C Case: Molded with UL-94 class V-0 recognized Halogen Free Epoxy over Glass Polarity: color band denotes cathode end Mounting position: any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Rating at 25°C ambient temperature unless otherwise specified. SYMBOL SR1D-E Units Maximum Recurrent Peak Reverse Voltage Vrrm 200 V Maximum RMS Voltage Vrms 140 V Maximum DC blocking Voltage Vdc 200 V Maximum Average Forward Rectified current 1.0 lf(av) A T₁ =120°C Peak Forward Surge Current 8.3ms single half sinelfsm 30.0 А wave superimposed on rated load (JEDEC method) Vf 1.3 Maximum Forward Voltage at 1.0A V Maximum full load reverse current full cycle average Ir(av) 50.0 μA Ta = 55℃ 5.0 Maximum DC Reverse Current Ta =25℃ Ir μΑ at rated DC blocking voltage Ta =125℃ 100.0 Maximum Reverse Recovery Time (Note1) Trr 150 nS **Typical Junction Capacitance** Cj 8.5 (Note 2) pF Rth(ja) 85.0 Typical Thermal Resistance (Note 3) °C/W Rth(jl) 28.0 Storage and Operating Junction Temperature Range -65 to +175 Tstg, Tj °C Note:

1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A

2. Measured at 1.0 MHz and applied Vr=4.0V

3. Thermal Resistance from Junction to Ambient and from junction to lead, P.C.B. Mounted on 0.2×0.2" (5.0×5.0mm) copper pad areas

RATINGS AND CHARACTERISTIC CURVES SR1D-E



FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS







FIG. 2 - MAXIMUM NON-REPETITIVE PEAK

FIG. 4 - TYPICAL REVERSE CHARACTERISTICS



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