

MR2535L

AUTOMOTIVE TRANSIENT SUPPRESSORS

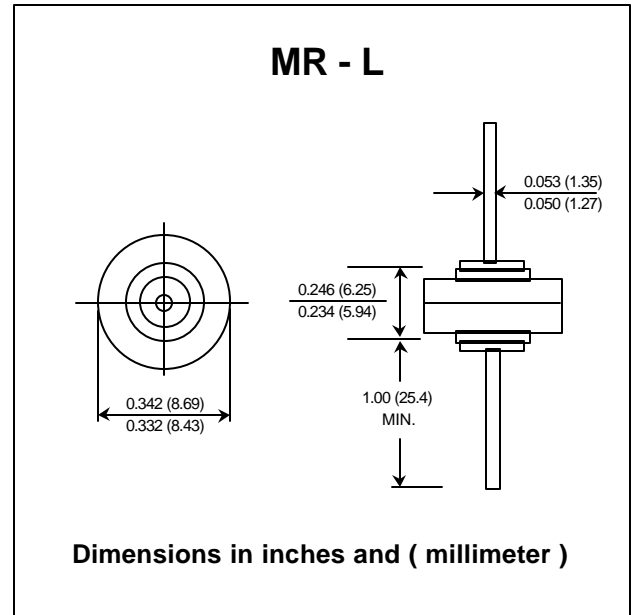
V_{BR} : 20 Volts
I_o : 35 Amperes

FEATURES :

- * Avalanche Voltage 24 to 32 Volts
- * High Power capability
- * Increased Capacity by Parallel Operation

MECHANICAL DATA :

- * Case : Molded plastic
- * Epoxy : UL94V-O rate flame retardant
- * Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- * Polarity : Cathode polarity band
- * Mounting position : Any
- * Weight : 2.69 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 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%.

| RATING | SYMBOL | VALUE | UNIT |
|---|----------------------|---------------|--------|
| Maximum DC Peak Repetitive Reverse Voltage | V _{RRM} | 20 | Volts |
| Maximum Working Peak Reverse Voltage | V _{RWM} | 20 | Volts |
| Maximum DC Blocking Voltage | V _R | 20 | Volts |
| Maximum Breakdown Voltage (I _R = 100 mA, T _c = 25 °C) (1) | V _{BR(max)} | 32 | Volts |
| Minimum Breakdown Voltage (I _R = 100 mA, T _c = 25 °C) (1) | V _{BR(min)} | 24 | Volts |
| Average Rectified Forward Current (Single Phase, Resistive Load, 60 Hz, T _c = 150 °C) | I _{F(AV)} | 35 | Amps. |
| Maximum Repetitive Peak Reverse Surge Current (Time Constant = 10 ms, Duty Cycle ≤ 1%, T _c = 25 °C) | I _{RSM} | 110 | Amps. |
| Maximum Non-Repetitive Peak Surge Current Surge Supplied at Rated Load Conditions, Halfwave, Single Phase | I _{FSM} | 600 | Amps. |
| Maximum Instantaneous Forward Voltage (I _F = 100 Amps. T _c = 25 °C) (1) | V _F | 1.1 | Volts. |
| Maximum Reverse Current (V _R = 20 Volts, T _c = 25 °C) | I _R | 200 | nA |
| Typical Thermal Resistance Junction to Case | R _{θJC} | 0.8 | °C/W |
| Junction Temperature Range | T _J | - 65 to + 175 | °C |
| Storage Temperature Range | T _{STG} | - 65 to + 175 | °C |

Note : (1) Pulse Test : Pulse Width ≤ 300μs, Duty Cycle ≤ 2%.

UPDATE : MAY 24, 1999