MR2535L

AUTOMOTIVE TRANSIENT SUPPRESSORS

V_{BR} : 20 Volts
Io : 35 Amperes

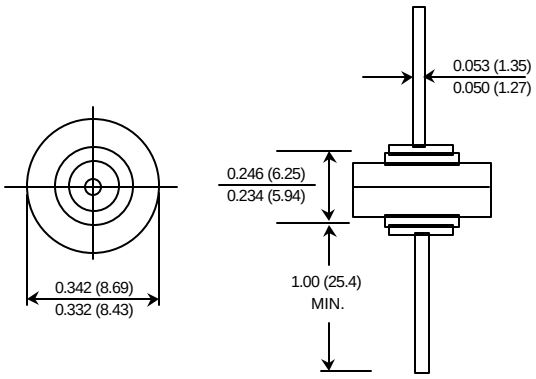
FEATURES :

* 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

MR - L



Dimensions in inches and (millimeter)

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, Tc = 25°C) (1)	$V_{BR(max)}$	32	Volts
Minimum Breakdown Voltage (I_R = 100 mA, Tc = 25°C) (1)	$V_{BR(min)}$	24	Volts
Average Rectified Forward Current (Single Phase, Resistive Load, 60 Hz, Tc = 150 °C)	$I_{F(AV)}$	35	Amps.
Maximum Repetitive Peak Reverse Surge Current (Time Constant = 10 ms, Duty Cycle ≤ 1%, Tc = 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. Tc = 25 °C) (1)	V_F	1.1	Volts.
Maximum Reverse Current (V_R = 20 Volts, Tc = 25 °C)	I_R	200	nA
Typical Thermal Resistance Junction to Case	RθJC	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