

MR3230L

AUTOMOTIVE TRANSIENT SUPPRESSOR DIODE

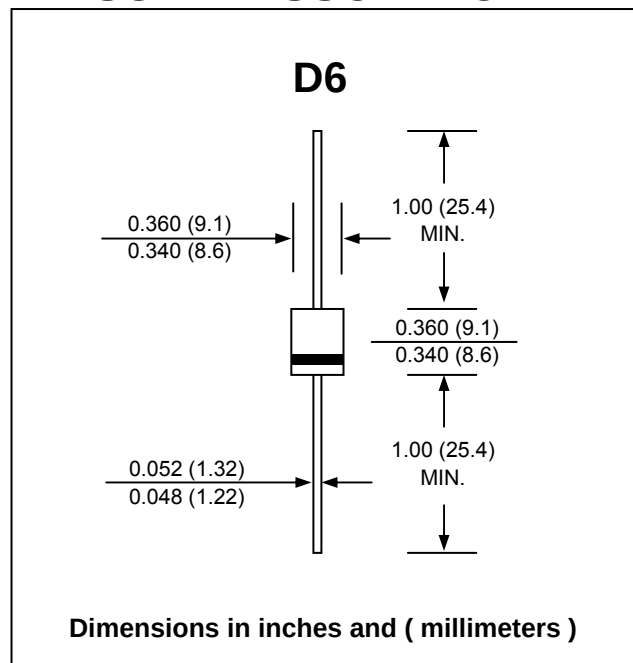
V_{BR} : 30 Volts
 I_o : 32 Amperes

FEATURES :

- * Avalanche Voltage 38 to 42 Volts
- * High Power capability
- * Increased Capacity by Parallel Operation
- * Pb / RoHS Free

MECHANICAL DATA :

- * Case : molded plastic
- * Epoxy : UL94V-O rate flame retardant
- * Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- * Polarity : Color band denotes cathode end
- * Mounting position : Any
- * Weight : 2.049 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 Working Peak Reverse Voltage	V_{RWM}	30	V
Maximum DC Blocking Voltage	V_R	30	V
Minimum Breakdown Voltage ($I_R = 100$ mA, $T_c = 25$ °C) ⁽¹⁾	$V_{BR(min)}$	38	V
Maximum Breakdown Voltage ($I_R = 100$ mA, $T_c = 25$ °C) ⁽¹⁾	$V_{BR(max)}$	42	V
Maximum Average Rectified Forward Current (Single Phase, Resistive Load, 60 Hz, $T_c = 150$ °C)	$I_{F(AV)}$	32	A
Maximum Repetitive Peak Reverse Surge Current (Time Constant = 10 ms, Duty Cycle ≤ 1%, $T_c = 25$ °C)	I_{RSM}	77	A
Maximum Instantaneous Forward Voltage ($I_F = 100$ A , $T_c = 150$ °C) ⁽¹⁾	V_F	1.1	V
Maximum Reverse Current ($V_R = 30$ V, $T_c = 25$ °C)	I_R	1.0	μA
Maximum Reverse Current ($V_R = 30$ V, $T_c = 150$ °C)	I_R	500	μA
Typical Thermal Resistance Junction to Case	$R_{\theta JC}$	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 ≤ 300ms, Duty Cycle ≤ 2%.