

# MR3230L

**V<sub>BR</sub> : 30 Volts**  
**I<sub>o</sub> : 32 Amperes**

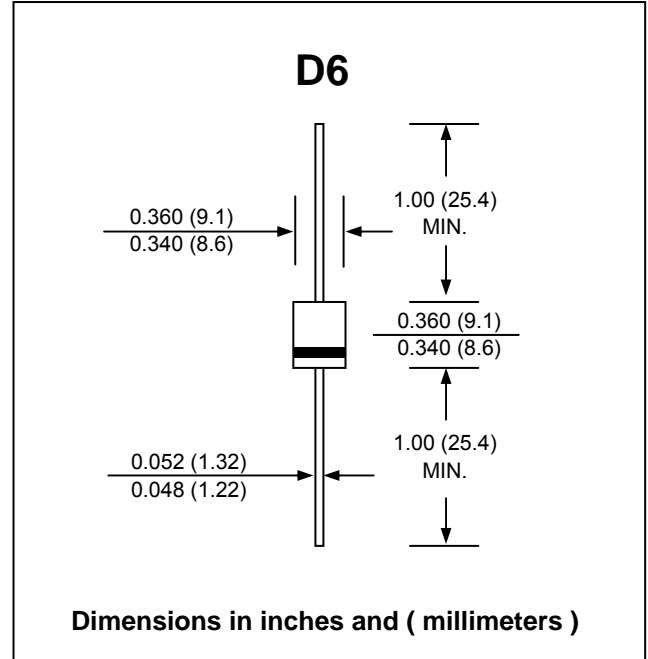
**FEATURES :**

- \* 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

## AUTOMOTIVE TRANSIENT SUPPRESSOR DIODE



**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 <sub>RWM</sub>	30	V
Maximum DC Blocking Voltage	V <sub>R</sub>	30	V
Minimum Breakdown Voltage ( I <sub>R</sub> = 100 mA, T <sub>c</sub> = 25 °C ) <sup>(1)</sup>	V <sub>BR(min)</sub>	38	V
Maximum Breakdown Voltage ( I <sub>R</sub> = 100 mA, T <sub>c</sub> = 25 °C ) <sup>(1)</sup>	V <sub>BR(max)</sub>	42	V
Maximum Average Rectified Forward Current ( Single Phase, Resistive Load, 60 Hz, T <sub>c</sub> = 150 °C )	I <sub>F(AV)</sub>	32	A
Maximum Repetitive Peak Reverse Surge Current ( Time Constant = 10 ms, Duty Cycle ≤ 1%, T <sub>c</sub> = 25 °C )	I <sub>RSM</sub>	77	A
Maximum Instantaneous Forward Voltage ( I <sub>F</sub> = 100 A , T <sub>c</sub> = 150 °C ) <sup>(1)</sup>	V <sub>F</sub>	1.1	V
Maximum Reverse Current ( V <sub>R</sub> = 30 V, T <sub>c</sub> = 25 °C )	I <sub>R</sub>	1.0	µA
Maximum Reverse Current ( V <sub>R</sub> = 30 V, T <sub>c</sub> = 150 °C )	I <sub>R</sub>	500	µA
Typical Thermal Resistance Junction to Case	R <sub>θJC</sub>	0.8	°C/W
Junction Temperature Range	T <sub>J</sub>	- 65 to + 175	°C
Storage Temperature Range	T <sub>STG</sub>	- 65 to + 175	°C

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