



MR5000L - MR5010L

PRV : 50 - 1000 Volts

Io : 50 Amperes

FEATURES :

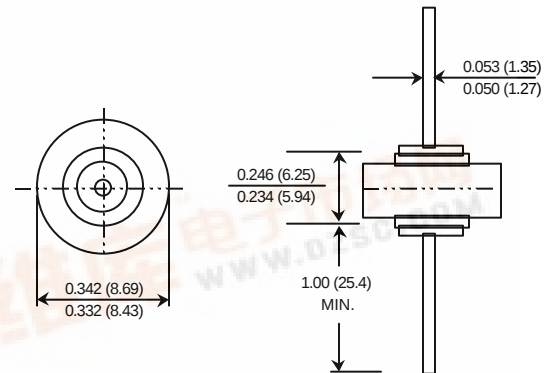
- * High current capability
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop

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

AUTOMOTIVE RECTIFIER DIODES

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	MR 5000L	MR 5001L	MR 5002L	MR 5004L	MR 5006L	MR 5008L	MR 5010L	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Average Rectified Forward Current $T_c = 150^{\circ}C$	$I_{F(AV)}$	50							Amps.
Peak Forward Surge Current Single half sine wave superimposed on rated load (JEDEC Method)	I_{FSM}	500							Amps.
Maximum Forward Voltage at $I_F = 50$ Amps.	V_F	1.1							Volts
Maximum DC Reverse Current $T_a = 25^{\circ}C$	I_R	5.0							μA
at rated DC Blocking Voltage $T_a = 100^{\circ}C$	$I_{R(H)}$	1.0							mA
Thermal Resistance (Note 1)	$R_{\theta JC}$	0.8							$^{\circ}C/W$
Junction Temperature Range	T_J	- 65 to + 175							$^{\circ}C$
Storage Temperature Range	T_{STG}	- 65 to + 175							$^{\circ}C$



Cert. No. Q14561



Certificate Number: 51726

RATING AND CHARACTERISTIC CURVES (MR5000L - MR5010L)

