

MR750 - MR760

PRV : 50 - 1000 Volts
Io : 22 Amperes

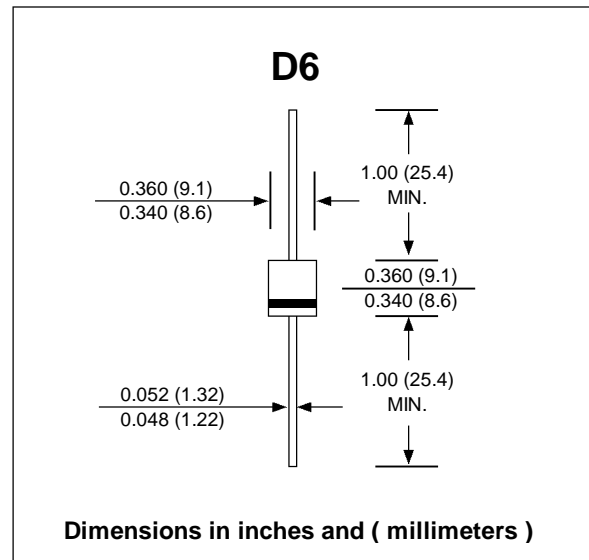
FEATURES :

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



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 750	MR 751	MR 752	MR 754	MR 756	MR 758	MR 760	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum Working Peak Reverse Voltage	V_{RWM}	50	100	200	400	600	800	1000	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Non-Repetitive Peak Reverse Voltage (Halfwave, single phase , 60Hz peak)	V_{RSM}	60	120	240	480	720	960	1200	V
Maximum RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	V
Maximum Average Rectified Forward Current (Halfwave, single phase , 60Hz peak)	$I_{F(AV)}$	22 ($T_L = 60\text{ }^\circ\text{C}$, 1/8" Lead Lengths) 6 ($T_a = 60\text{ }^\circ\text{C}$, P.C. Board mounting)							A
Maximum Non-Repetitive Peak Forward Surge Current (surge applied at rated load conditions)	I_{FSM}	400 (for 1 cycle)							A
Maximum Instantaneous Forward Voltage Drop ($i_F = 100\text{ A}$, $T_J = 25\text{ }^\circ\text{C}$)	V_F	1.25							V
Maximum Forward Voltage Drop ($I_F = 6.0\text{ A}$, $T_a = 25\text{ }^\circ\text{C}$, 3/8" leads)	V_F	0.9							V
Maximum Reverse Current $T_J = 25\text{ }^\circ\text{C}$ (at rated dc Voltage) $T_J = 100\text{ }^\circ\text{C}$	I_R	25							μA
		1.0							mA
Junction Temperature Range	T_J	- 65 to + 175							$^\circ\text{C}$
Storage Temperature Range	T_{STG}	- 65 to + 175							$^\circ\text{C}$

RATING AND CHARACTERISTIC CURVES (MR750 - MR760)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

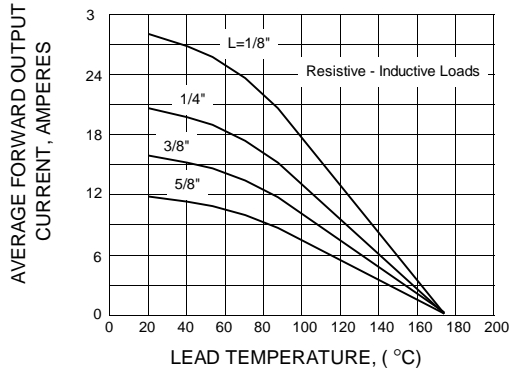


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

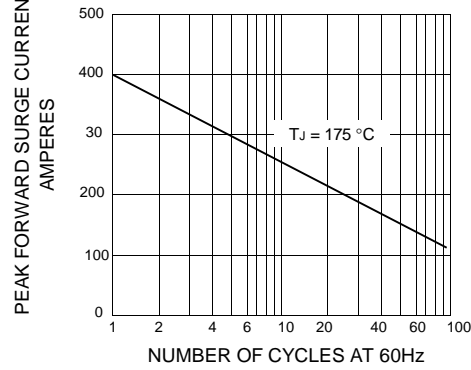


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

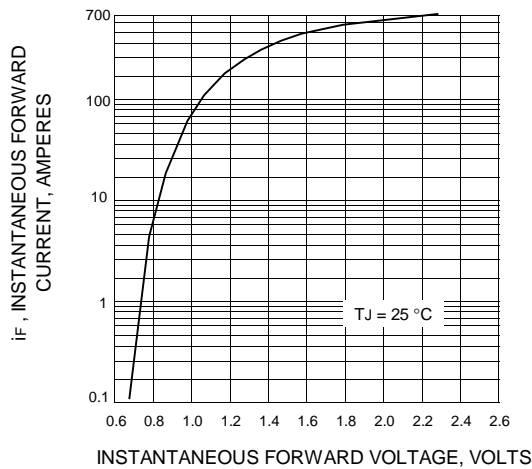


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

