



MR750 - MR760

PRV : 50 - 1000 Volts
Io : 22 Amperes

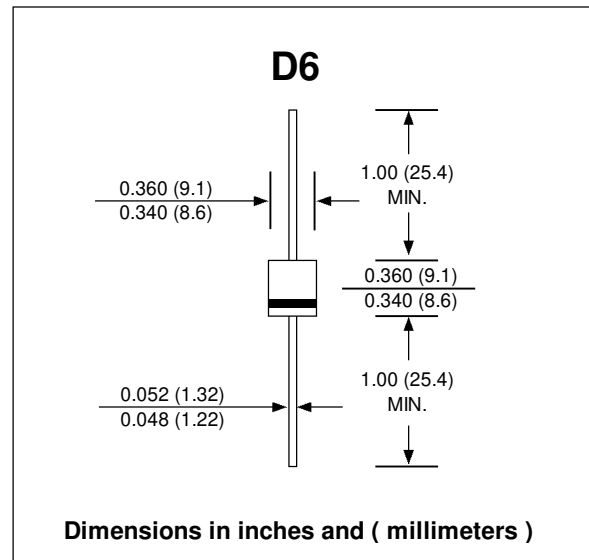
FEATURES :

- * 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 °C , 1/8" Lead Lengths) 6 (T _a = 60 °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 A, T _J = 25°C)	V _F	1.25							V
Maximum Forward Voltage Drop (I _F = 6.0 A, T _a = 25°C , 3/8" leads)	V _F	0.9							V
Maximum Reverse Current (at rated dc Voltage) T _J = 25 °C	I _R	25							μA
		1.0							mA
Junction Temperature Range	T _J	- 65 to + 175							°C
Storage Temperature Range	T _{STG}	- 65 to + 175							°C



RATING AND CHARACTERISTIC CURVES (MR750 - MR760)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

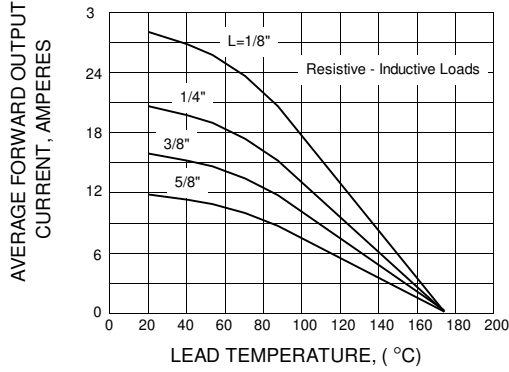


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

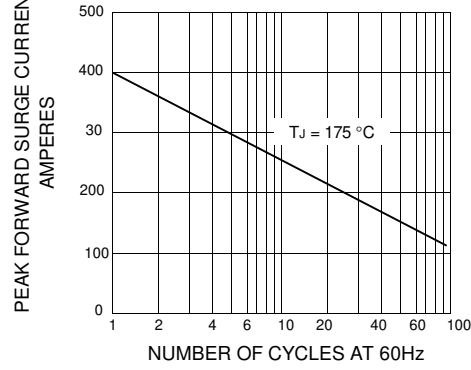


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

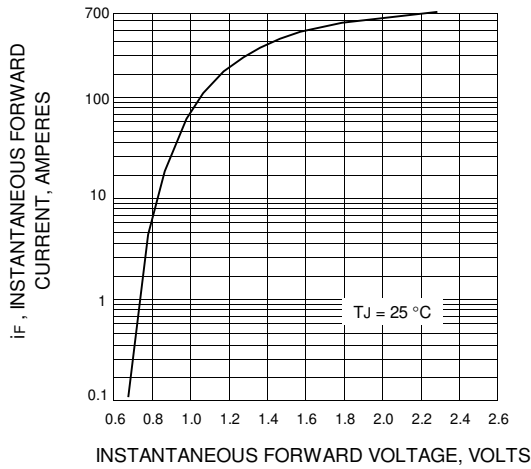


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

