



MR750 - MR760

PRV : 50 - 1000 Volts
Io : 22 Amperes

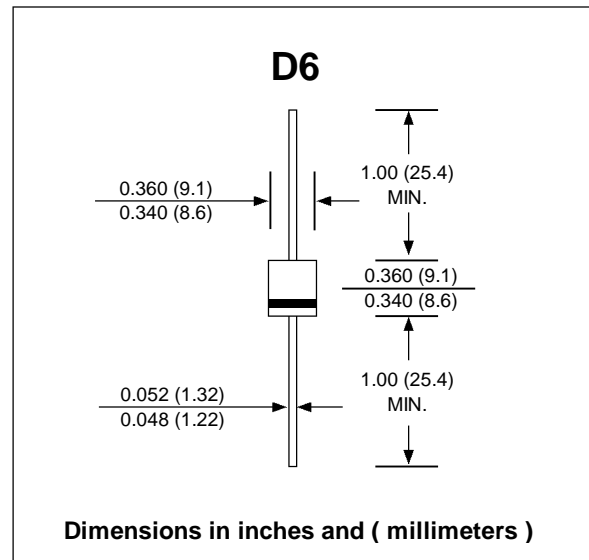
FEATURES :

- * 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) | 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

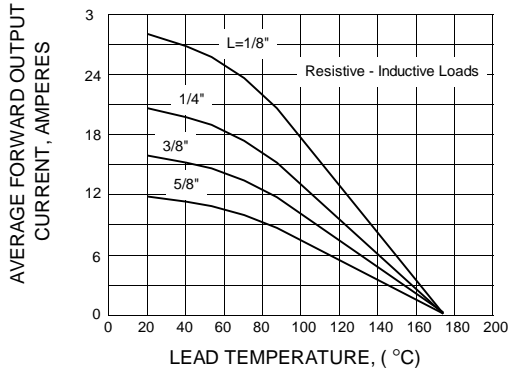


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

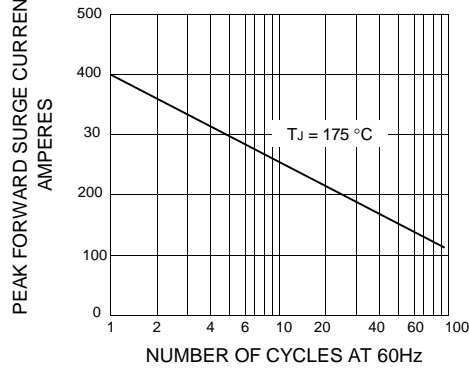


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

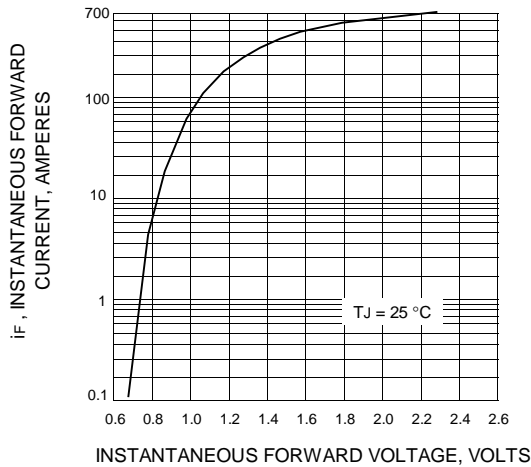


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

