

TVR5B

GLASS PASSIVATED JUNCTION FAST RECOVERY DIODE

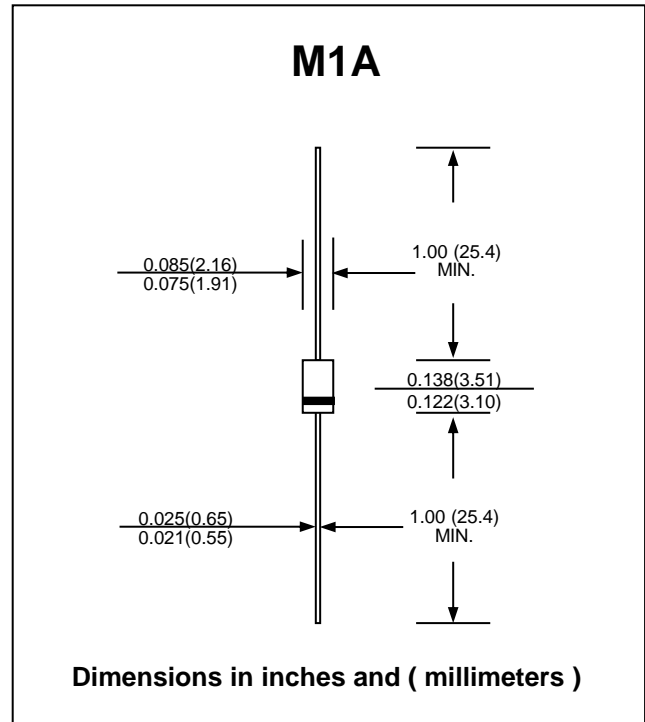
PRV : 100 Volts
I_o : 0.5 Amperes

FEATURES :

- * Glass passivated junction chip
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * Fast switching for high efficiency
- * Pb / RoHS Free

MECHANICAL DATA :

- * Case : M1A 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 : 0.20 gram (approximately)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.

| RATING | SYMBOL | VALUE | UNIT |
|---|--------------------|--|------|
| Maximum Repetitive Peak Reverse Voltage | V _{RRM} | 100 | V |
| Maximum Average Forward Current | I _{F(AV)} | 0.5 | A |
| Maximum Peak One Cycle Surge Forward Current (Non-Repetitive, f = 50 Hz) | I _{FSM} | 20 | A |
| Maximum Peak Forward Voltage at I _F = 0.5 A | V _F | 1.2 | V |
| Maximum Repetitive Peak Reverse Current at V _{RRM} | I _R | 10 | μA |
| Maximum Reverse Recovery Time | T _{rr} | 1.5 ⁽¹⁾ 500 ⁽²⁾ | μs |
| Junction Temperature Range | T _J | - 40 to + 125 | °C |
| Storage Temperature Range | T _{STG} | - 40 to + 125 | °C |

Notes :

- (1) Reverse Recovery Test Conditions : I_F = 20 mA, I_R = 1 mA.
- (2) Reverse Recovery Test Conditions : I_F = 100 mA, I_R = 100 mA.

RATING AND CHARACTERISTIC CURVES (TVR5B)

FIG.1 - AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

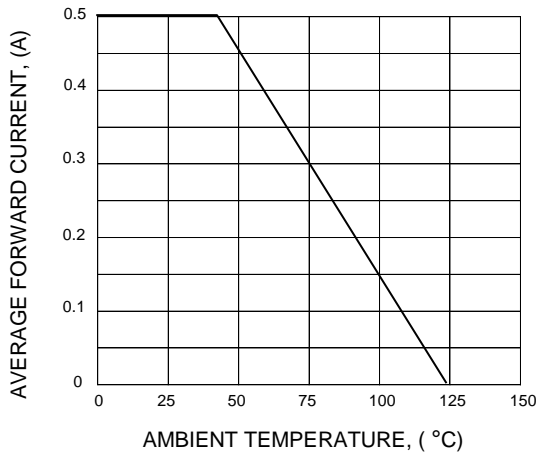


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

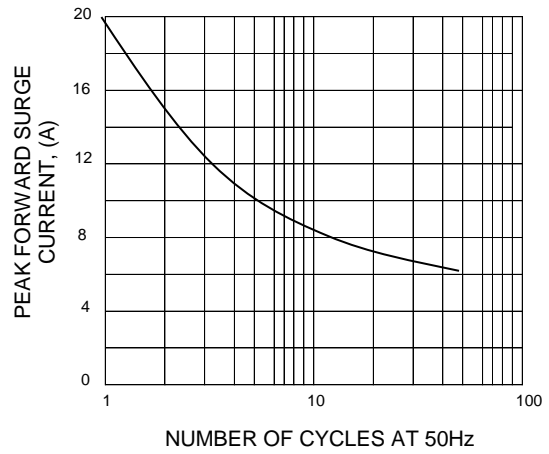


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

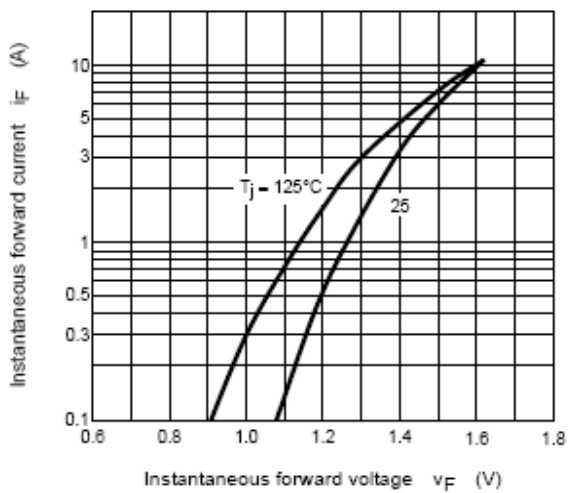


FIG.4 - AVERAGE FORWARD CURRENT VS. AVERAGE FORWARD POWER DISSIPATION

