

TVR5B

GLASS PASSIVATED JUNCTION FAST RECOVERY DIODE

PRV : 100 Volts

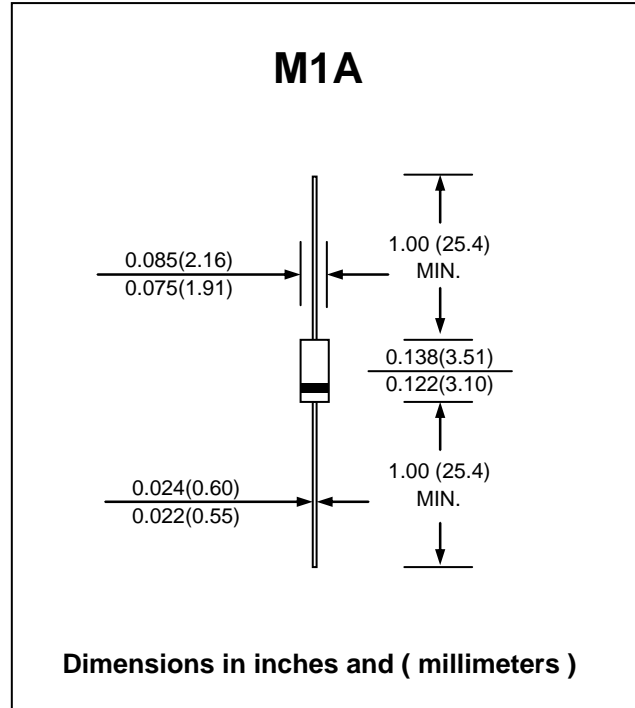
Io : 0.5 Amperes

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

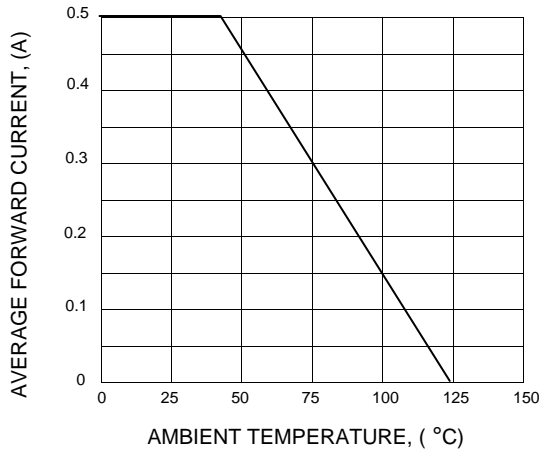


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

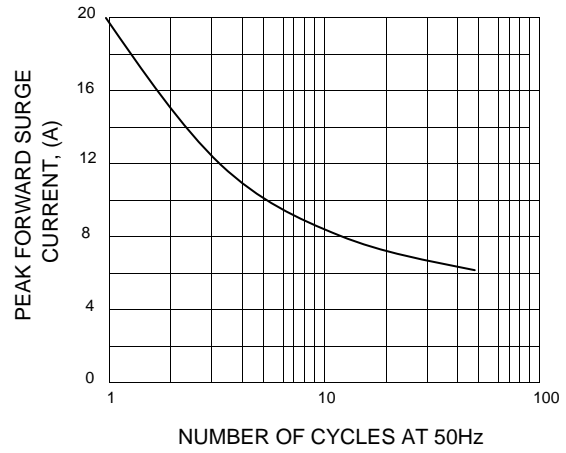


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

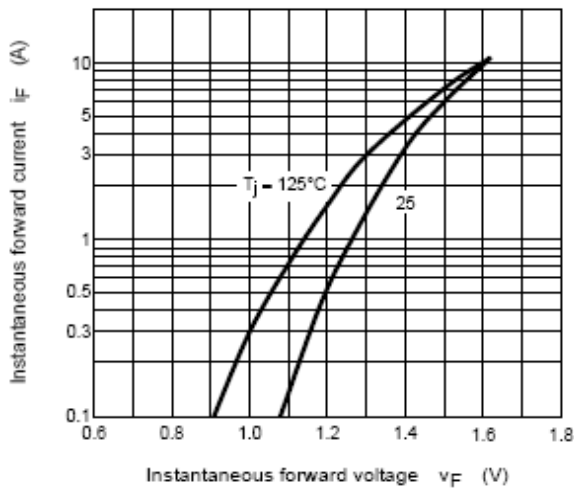


FIG.4 - AVERAGE FORWARD CURRENT VS. AVERAGE FORWARD POWER DISSIPATION

