

1JU41

PRV : 600 Volts
I_o : 1.0 Ampere

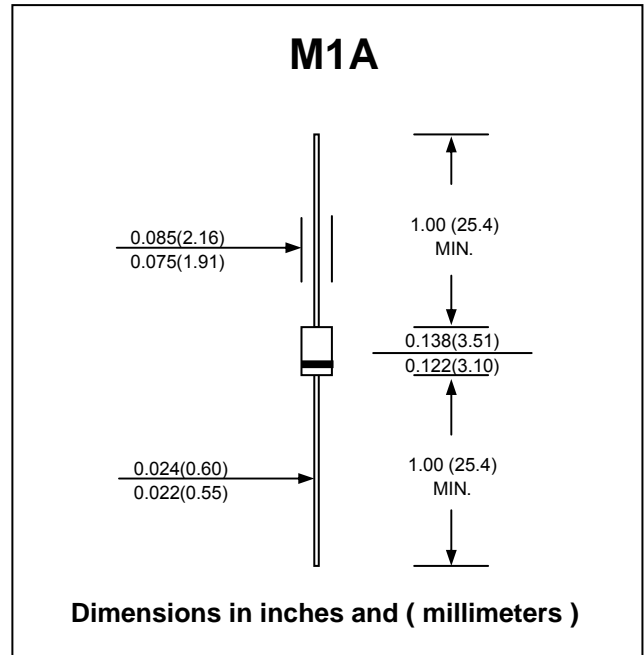
FEATURES :

- * Glass passivated junction chip
- * 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)

HIGH EFFICIENT RECTIFIER



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}	600	V
Maximum Average Forward Current, T _a = 25 °C	I _{F(AV)}	1.0	A
Maximum Peak One Cycle Surge Forward Current (Non-Repetitive)	I _{FSM}	30 (50Hz)	A
		33 (60Hz)	
Maximum Peak Forward Voltage at I _F = 1.0 A	V _F	2.0	V
Maximum Repetitive Peak Reverse Current at V _{RRM} = 600 V	I _R	100	µA
Maximum Reverse Recovery Time (Note 1)	T _{rr}	100	ns
Junction Temperature Range	T _J	- 40 to + 150	°C
Storage Temperature Range	T _{STG}	- 40 to + 150	°C

Note:

(1) Reverse Recovery Test Conditions : I_F = 1 A, di/dt = -30 A/µs.

RATING AND CHARACTERISTIC CURVES (1JU41)

FIG.1 - DERATING CURRENT CURVE

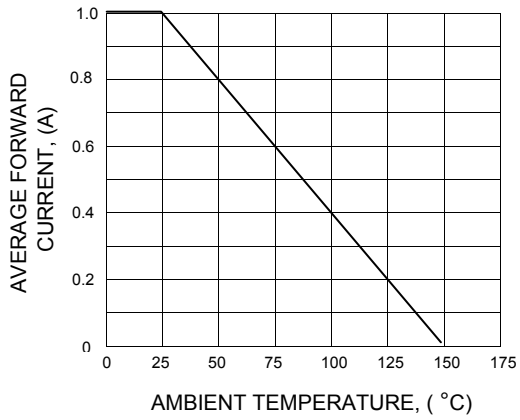


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

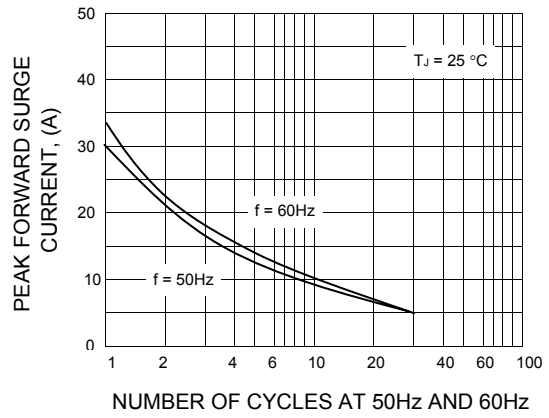


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

