

1JU42

PRV: 600 Volts Io: 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,

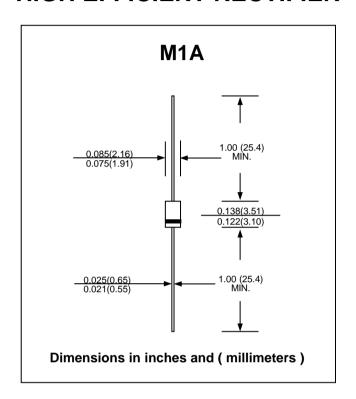
Method 208 guaranteed

* 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, Ta = 25 °C	I _{F(AV)}	1.0	Α
Maximum Peak One Cycle Surge Forward	I _{FSM}	15 (50Hz)	A
Current (Non-Repetitive)		17 (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	μΑ
Maximum Reverse Recovery Time (Note 1)	Trr	100	ns
Junction Temperature Range	TJ	- 40 to + 150	°C
Storage Temperature Range	T _{STG}	- 40 to + 150	°C

Note:

(1) Reverse Recovery Test Conditions : $I_F = 1 \text{ A}$, $di/dt = -30 \text{ A}/\mu s$.

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RATING AND CHARACTERISTIC CURVES (1JU42)

FIG.1 - DERATING CURRENT CURVE

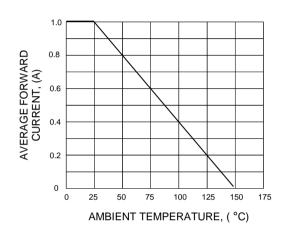


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

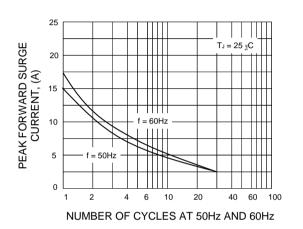
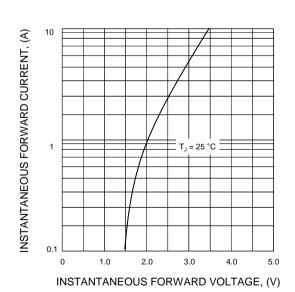


FIG.3 - TYPICAL FORWARD CHARACTERISTICS



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