

1N3611 - 1N3614 1N3657

PRV : 200 - 1000 Volts
I_o : 1.0 Ampere

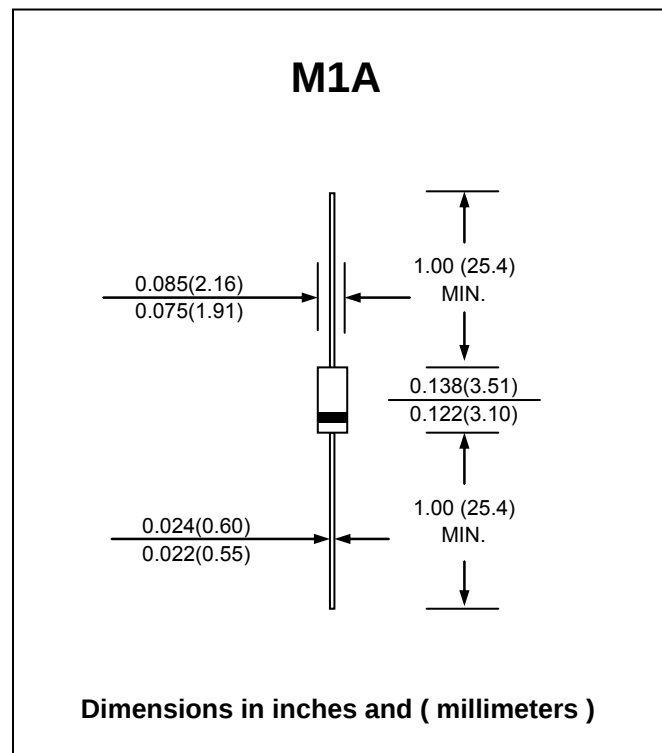
FEATURES :

- * Glass passivated chip
- * High forward surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * **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)

GLASS PASSIVATED JUNCTION SILICON RECTIFIERS



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	1N3611	1N3612	1N3613	1N3614	1N3657	UNIT
Maximum Working Peak Reverse Voltage	V _{RWM}	200	400	600	800	1000	V
Minimum Breakdown Voltage @ 100 μA	V _{BR(MIN)}	240	480	720	920	1150	V
Maximum Average Forward Current at Ta = 100 °C at Ta = 150 °C	I _{F(AV)}	1.0 0.3					A
Peak Forward Surge Current (8.3 ms half-sine)	I _{FSM}	30					A
Maximum Forward Voltage at I _F = 1.0 A	V _F	1.1					V
Maximum Reverse Current at V _{RWM} , Ta = 25 °C at V _{RWM} , Ta = 150 °C	I _R I _{R(H)}	1.0 300					μA
Thermal Resistance , Junction to Lead (Note 1)	R _{θJL}	38					°C/W
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-65 to +175					°C

Note : (1) At 3/8"(10 mm) lead length form body.