

1N3611 - 1N3614 1N3657

GLASS PASSIVATED JUNCTION SILICON RECTIFIERS

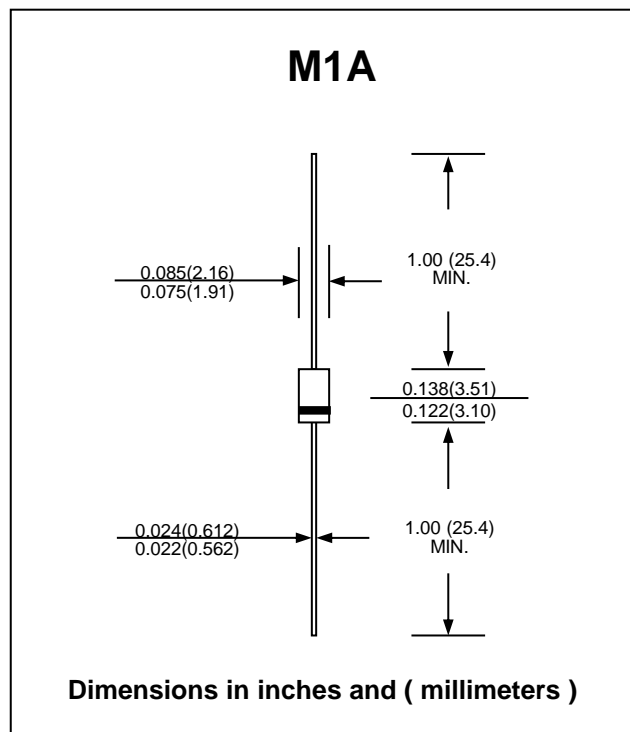
PRV : 200 - 1000 Volts
Io : 1.0 Ampere

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)



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 μ A	$V_{BR(MIN)}$	240	480	720	920	1150	V
Maximum Average Forward Current at $T_a = 100\text{ }^{\circ}\text{C}$ at $T_a = 150\text{ }^{\circ}\text{C}$	$I_{F(AV)}$	1.0 0.3					A
Peak Forward Surge Current (8.3 ms half-sine)	I_{FSM}	30					A
Maximum Forward Voltage at $I_F = 1.0\text{ A}$	V_F	1.1					V
Maximum Reverse Current at V_{RWM} , $T_a = 25\text{ }^{\circ}\text{C}$ at V_{RWM} , $T_a = 150\text{ }^{\circ}\text{C}$	I_R $I_{R(H)}$	1.0 300					μ A
Thermal Resistance , Junction to Lead (Note 1)	$R_{\theta JL}$	38					$^{\circ}\text{C/W}$
Operating Junction and Storage Temperature Range	T_J , T_{STG}	-65 to +175					$^{\circ}\text{C}$

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