

1N4245 - 1N4249

PRV : 200 - 1000 Volts
I_o : 1.0 Ampere

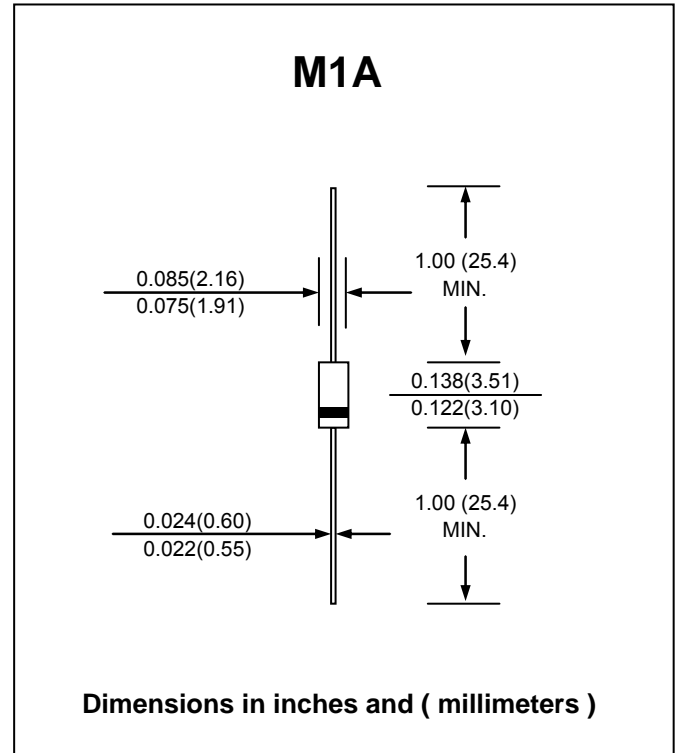
FEATURES :

- * 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	1N4245	1N4246	1N4247	1N4248	1N4249	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	960	1150	V
Maximum Average Forward Current at Ta = 55 °C	I _{F(AV)}	1.0					A
Peak Forward Surge Current 8.3 ms Single half sine wave Superimposed on rated load (JEDEC Method)	I _{FSM}	25					A
Maximum Forward Voltage at I _F = 3.0 A	V _F	1.3					V
Maximum Reverse Current at V _{RWM} , Ta = 25 °C at V _{RWM} , Ta = 150 °C	I _R	1.0					μA
	I _{R(H)}	150					
Maximum Reverse Recovery Time (Note 1)	T _{rr}	5.0					μs
Thermal Resistance , Junction to Lead (Note 2)	R _{θJL}	42					°C/W
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-65 to +175					°C

Notes :

- (1) Reverse Recovery Test Conditions : I_F = 0.5 A, I_{RM} = 1.0 A, I_{R(REC)} = 0.25 A.
- (2) At 3/8"(10 mm) lead length form body.