Certificate TH97/10561QM Certificate TW00/17276EM

1N4245 - 1N4249

GLASS PASSIVATED JUNCTION SILICON RECTIFIERS

PRV : 200 - 1000 Volts
Io : 1.0 Ampere

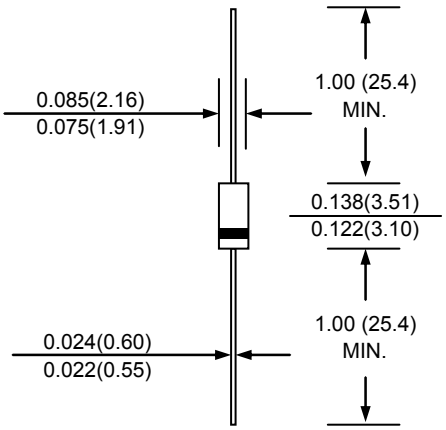
FEATURES :

* 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)

M1A



Dimensions in inches and (millimeters)

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	I_R	1.0					µA
at V_{RWM}, Ta = 150 °C	$I_{R(H)}$	150					µA
Maximum Reverse Recovery Time (Note 1)	Trr	5.0					µs
Thermal Resistance , Junction to Lead (Note 2)	$R_{\Theta JL}$	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.