

ESJA04-03A

HIGH VOLTAGE ULTRAFAST RECTIFIER DIODE

PRV : 3000 Volts

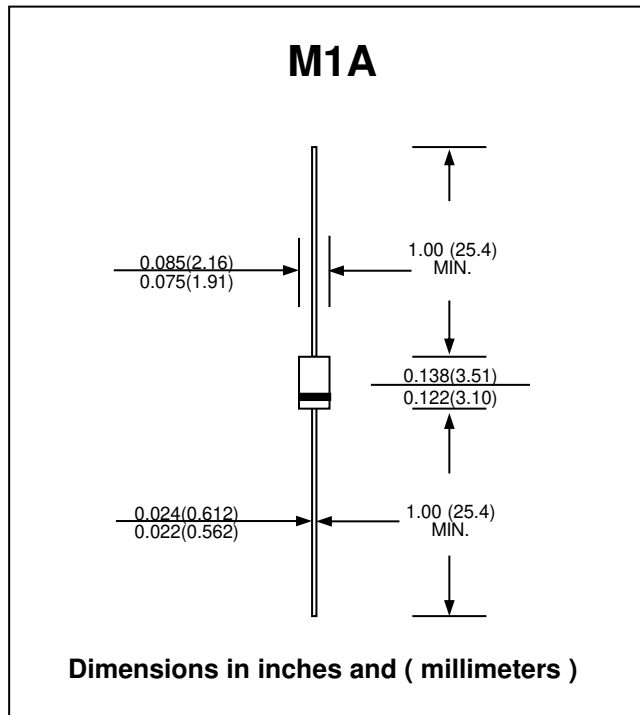
Io : 1 mA

FEATURES :

- * Glass passivated junction chip
- * High voltage capability
- * Fast switching for high efficiency
- * High reliability
- * Low reverse current
- * **Pb / RoHS Free**

MECHANICAL DATA :

- * Case : M1A Molded plastic
- * Epoxy : UL94V-0 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.

RATING	SYMBOL	VALUE	UNITS
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	3000	V
Maximum Average Forward Current , (50 Hz Sine Wave)	$I_{F(AV)}$	1.0	mA
Non-Repetitive Peak Forward Surge Current 50 Hz Sine Half Wave Peak Value	I_{FSM}	0.3	A
Maximum Forward Voltage at $I_F = 10$ mA.	V_F	12	V
Maximum Reverse Current $V_R = 3$ KV $V_R = 3$ KV, 100 °C	I_R	2.0 5.0	μ A
Maximum Reverse Recovery Time (Note 1)	T_{rr}	80	ns
Maximum Junction Capacitance	C_J	3	pF
Allowable Operating Case Temperature	T_C	100	°C
Operating Junction Temperature Range	T_J	120	°C
Storage Temperature Range	T_{STG}	- 40 to + 120	°C

Note : (1) Reverse Recovery Test Conditions : $I_F = 2$ mA, $I_R = 4$ mA

RATING AND CHARACTERISTIC CURVES (ESJA04-03A)

FIG.1 - TYPICAL FORWARD CHARACTERISTICS

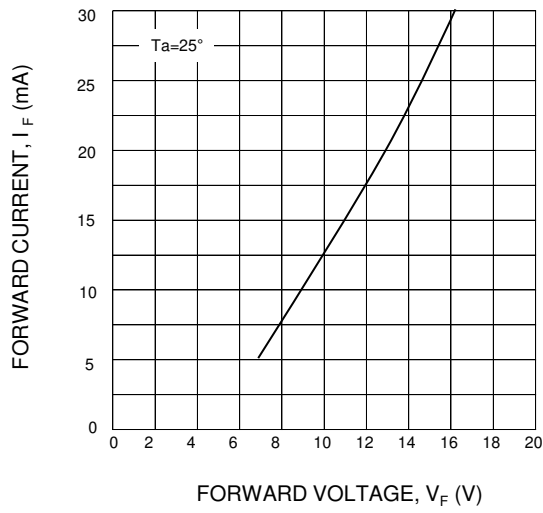


FIG.2 - TYPICAL REVERSE CHARACTERISTICS

