

SHV- 03S

HIGH VOLTAGE ULTRA FAST RECOVERY RECTIFIER

PRV : 3000 Volts

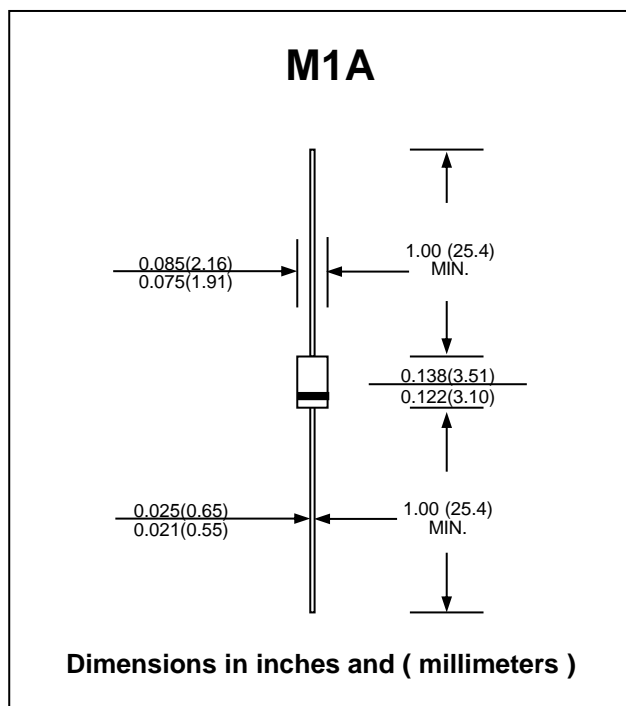
Io : 2 mA

FEATURES :

- * Glass Passivated Junction Chip
- * High voltage capability
- * High reliability
- * Low reverse current
- * Ultra Fast Recovery
- * **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.

For capacitive load, derate current by 20%.

RATING	SYMBOL	VALUE	UNITS
Maximum Peak Reverse Voltage	V_{RM}	3000	V
Maximum Average Forward Current	$I_{F(AV)}$	2.0	mA
Peak Forward Surge Current 50 Hz Half - cycle Sinewave Single Shot	I_{FSM}	0.3	A
Maximum Peak Forward Voltage at $I_F = 10$ mA.	V_F	16	V
Maximum Reverse Current at $V_R = V_{RM}$ $T_a = 100^\circ\text{C}$	I_R	1.0	μA
	$I_{R(H)}$	3.0	μA
Reverse Recovery Time Range (Note 1)	T_{rr}	0.18	μs
Case Temperature Range	T_C	100	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	- 40 to + 120	$^\circ\text{C}$

Note:

(1) Reverse Recovery Test Conditions : $I_F = 10$ mA, $I_{RP} = 10$ mA.