

# ERA22-02 ~ ERA22-10

**PRV : 200 - 1000 Volts**

**Io : 0.5 Ampere**

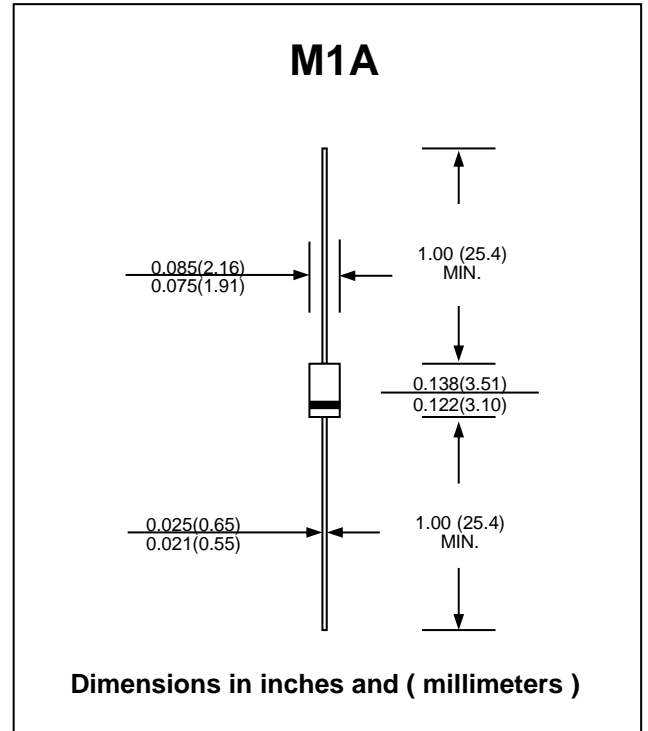
**FEATURES :**

- \* High current capability
- \* High surge current capability
- \* High reliability
- \* Low reverse current
- \* Low forward voltage drop
- \* Fast switching for high efficiency
- \* **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 : 0.2 gram

## FAST RECOVERY DIODE



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specific.  
 Single phase, half wave, 60 Hz, resistive or inductive load.  
 For capacitive load, derate current by 20%.

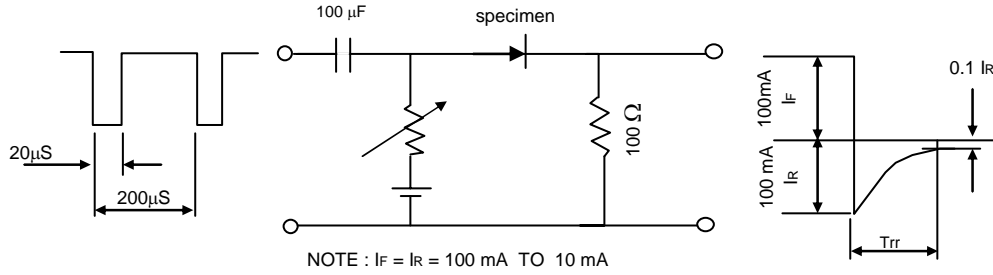
RATING	SYMBOL	ERA 22-02	ERA 22-04	ERA 22-06	ERA 22-08	ERA 22-10	UNIT
Maximum Repetitive Peak Reverse Voltage	VRRM	200	400	600	800	1000	V
Maximum DC Blocking Voltage	VDC	160	320	480	640	800	V
Maximum Average Forward Current , Ta = 40 °C	IF(AV)	0.5					A
Maximum Peak Forward Surge Current ( Sine wave, 10 ms )	IFSM	10					A
Maximum Forward Voltage at IF = 0.5 A	VF	1.5					V
Maximum Reverse Current at VRRM	IRRM	10					µA
Maximum Reverse Recovery Time ( Note 1 )	Trr	0.4					µs
Junction Temperature Range	TJ	- 40 to + 140					°C
Storage Temperature Range	TSTG	- 40 to + 140					°C

**Note :**

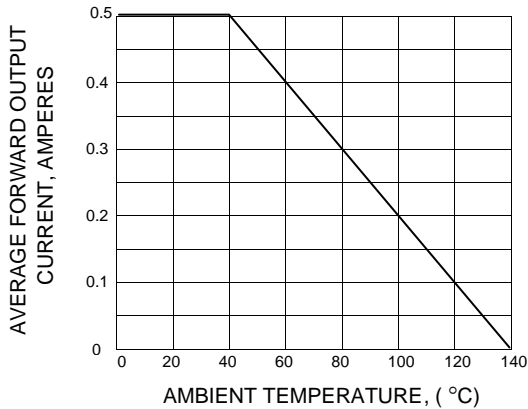
( 1 ) Reverse Recovery Test Conditions : IF = 100 mA, IR = 100 mA.

**RATING AND CHARACTERISTIC CURVES ( ERA22-02 ~ ERA22-10 )**

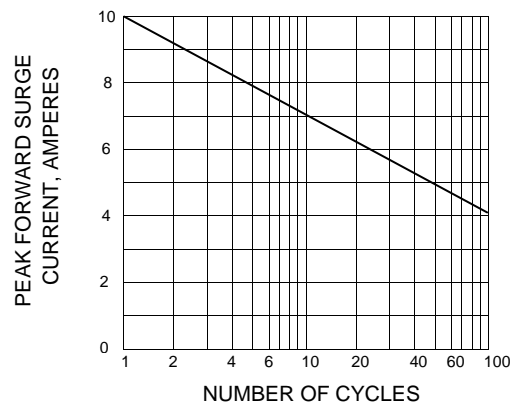
**FIG.1 - REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM**



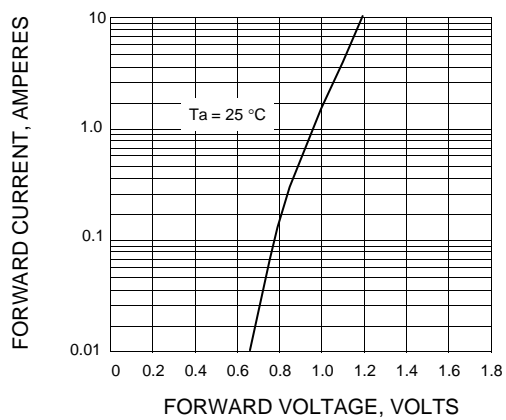
**FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT**



**FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT**



**FIG.4 - TYPICAL FORWARD CHARACTERISTICS**



**FIG.5 - TYPICAL REVERSE CHARACTERISTICS**

