

# ERA34-10

**PRV : 1000 Volts**

**Io : 0.1 Ampere**

## FEATURES :

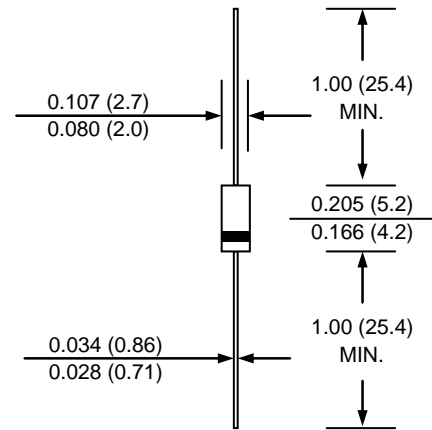
- \* High current capability
- \* High surge current capability
- \* High reliability
- \* Low reverse current
- \* Low forward voltage drop
- \* Fast switching for high efficiency
- \* **Pb / RoHS Free**

## MECHANICAL DATA :

- \* Case : DO-41 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 : 0.34 gram

# FAST RECOVERY DIODE

## DO - 41



Dimensions in inches and ( millimeters )

## 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%.

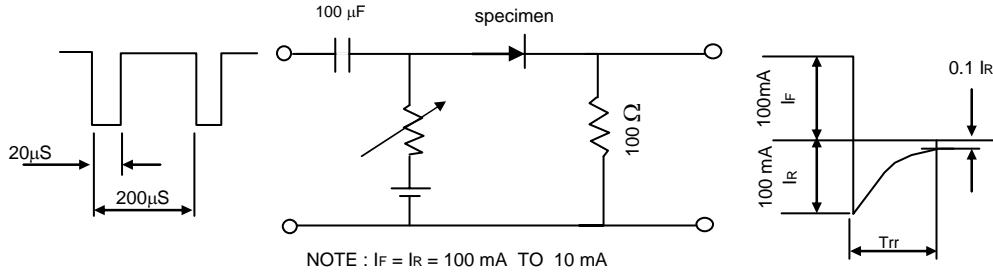
RATING	SYMBOL	VALUE	UNIT
Maximum Repetitive Peak Reverse Voltage	VRRM	1000	V
Maximum DC Blocking Voltage	VDC	800	V
Maximum Average Forward Current , Ta = 60 °C	IF(AV)	0.1	A
Maximum Peak Forward Surge Current ( Sine wave, 10 ms )	IFSM	2	A
Maximum Forward Voltage at IF = 0.1 A	VF	3.0	V
Maximum Reverse Current at VRRM	IRRM	50	μA
Maximum Reverse Recovery Time ( Note 1 )	Trr	0.15	μs
Junction Temperature Range	TJ	- 40 to + 140	°C
Storage Temperature Range	TSTG	- 40 to + 140	°C

### Note:

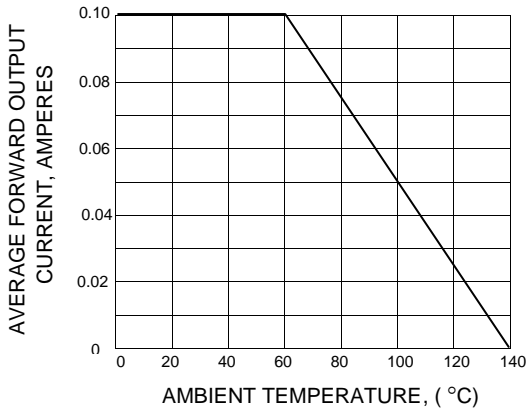
( 1 ) Reverse Recovery Test Conditions :IF = 100 mA, IR = 100 mA.

## RATING AND CHARACTERISTIC CURVES ( ERA34-10 )

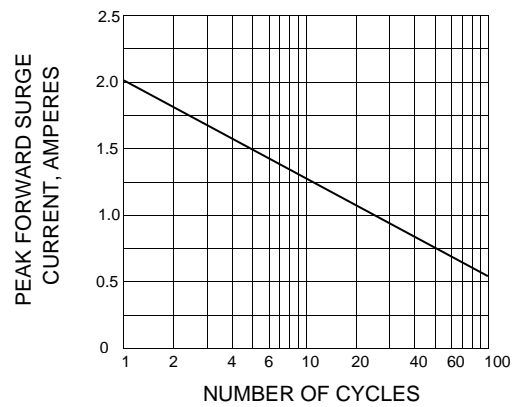
**FIG.1 - REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM**



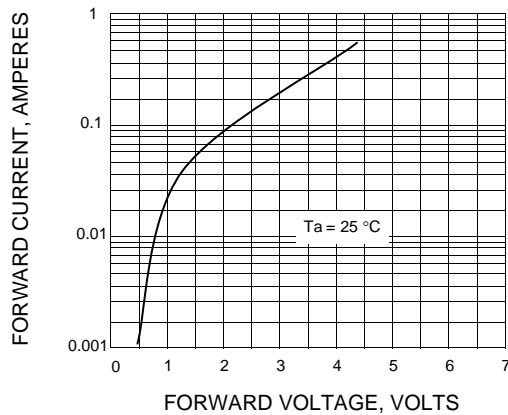
**FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT**



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



**FIG.4 - TYPICAL FORWARD CHARACTERISTICS**



**FIG.5 - TYPICAL REVERSE CHARACTERISTICS**

