

EP01C

PRV : 1000 Volts

Io : 0.2 Ampere

FEATURES :

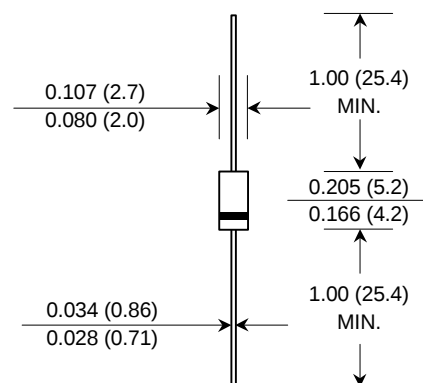
- * High current capability
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * Fast switching for high efficiency
- * **Pb / RoHS Free**

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 RECTIFIER DIODE

DO - 41



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	VALUE	UNIT
Maximum Peak Reverse Voltage	VRM	1000	V
Maximum Peak Reverse Surge Voltage	VRSM	1050	V
Maximum Average Forward Current	IF(AV)	0.2	A
Maximum Peak Forward Surge Current (50 Hz, Half-cycle, Sine wave, Single Shot)	IFSM	5.0	A
Maximum Forward Voltage at IF = 0.2 A	VF	4.0	Volt
Maximum Reverse Current at Reverse Voltage Ta = 25 °C	IR	5.0	μA
Maximum Reverse Current at Reverse Voltage Ta = 100 °C	IR(H)	50	μA
Maximum Reverse Recovery Time (Note 1)	Trr	200	ns
Junction Temperature Range	TJ	- 40 to + 150	°C
Storage Temperature Range	TSTG	- 40 to + 150	°C

Notes :

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

RATING AND CHARACTERISTIC CURVES (EP01C)

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

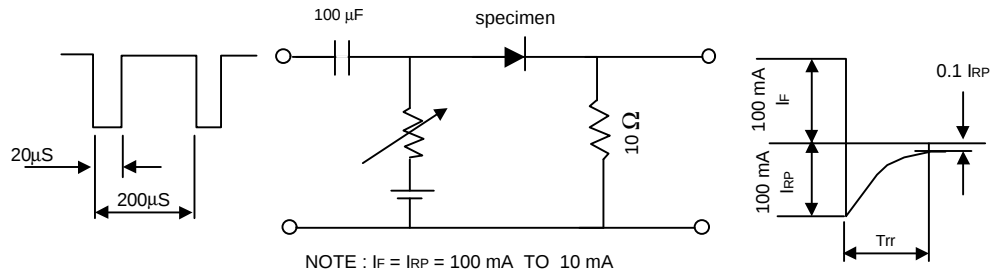


FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

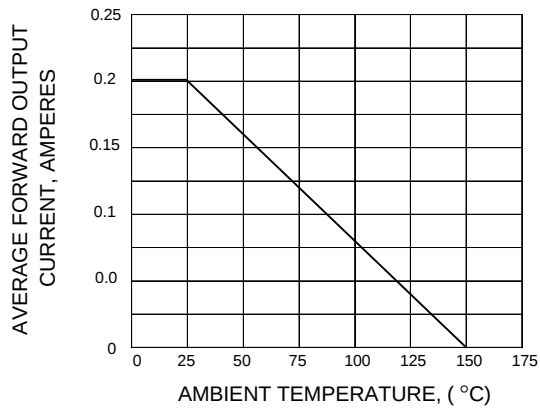


FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

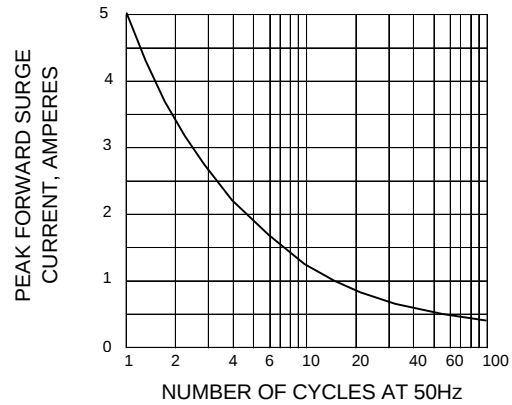


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

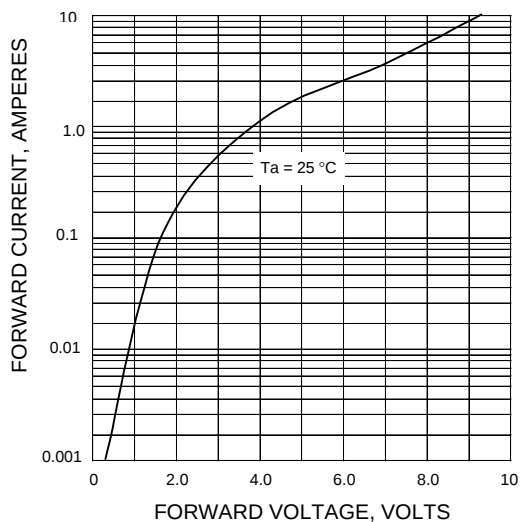


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

