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EP01C

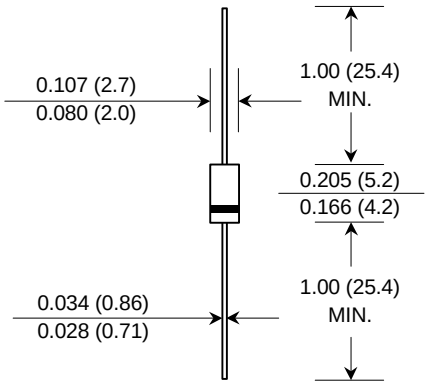
FAST RECOVERY RECTIFIER DIODE

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

DO - 41



Dimensions in inches and (millimeters)

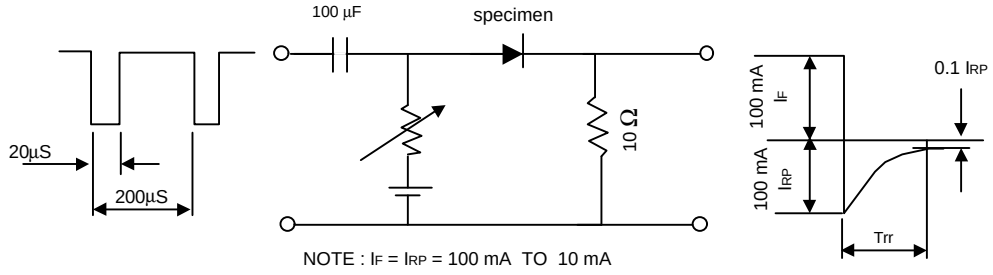
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS
Rating at 25 °C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

RATING	SYMBOL	VALUE	UNIT
Maximum Peak Reverse Voltage	V_{RM}	1000	V
Maximum Peak Reverse Surge Voltage	V_{RSM}	1050	V
Maximum Average Forward Current	$I_{F(AV)}$	0.2	A
Maximum Peak Forward Surge Current (50 Hz, Half-cycle, Sine wave, Single Shot)	I_{FSM}	5.0	A
Maximum Forward Voltage at I_F = 0.2 A	V_F	4.0	Volt
Maximum Reverse Current at Reverse Voltage Ta = 25 °C	I_R	5.0	µA
Maximum Reverse Current at Reverse Voltage Ta = 100 °C	$I_{R(H)}$	50	µA
Maximum Reverse Recovery Time (Note 1)	Trr	200	ns
Junction Temperature Range	T_J	- 40 to + 150	°C
Storage Temperature Range	T_{STG}	- 40 to + 150	°C

Notes :
(1) Reverse Recovery Test Conditions : I_F = 100 mA, I_{RP} = 100 mA.

RATING AND CHARACTERISTIC CURVES (EP01C)

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



NOTE : $I_F = I_{RP}$ = 100 mA TO 10 mA

FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

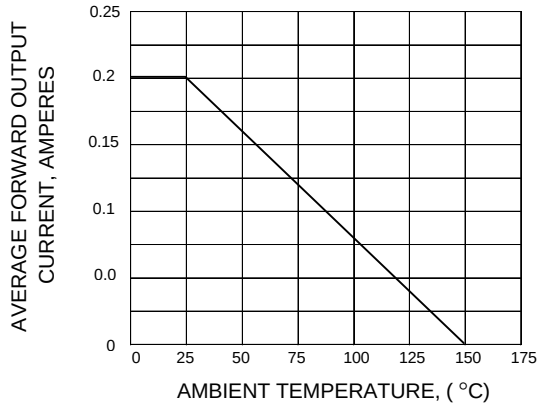


FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

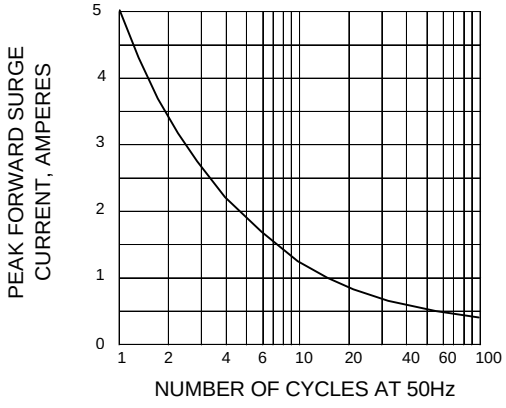


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

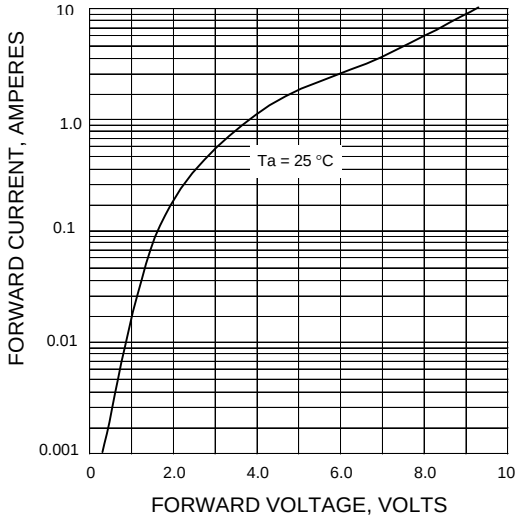


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

