Certificate Number: Q10561

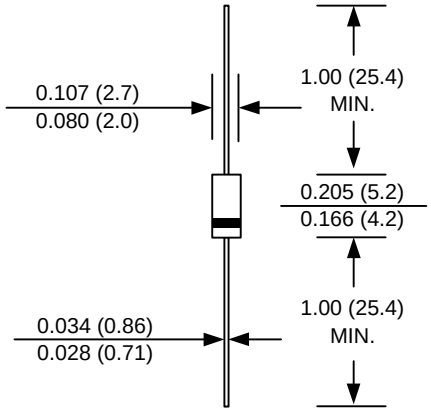
Certificate Number: E17276

EU01 ~ EU01A

FAST RECOVERY RECTIFIER DIODES

PRV : 200 ~ 600 Volts
Io : 0.25 Ampere

DO - 41



Dimensions in inches and (millimeters)

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

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

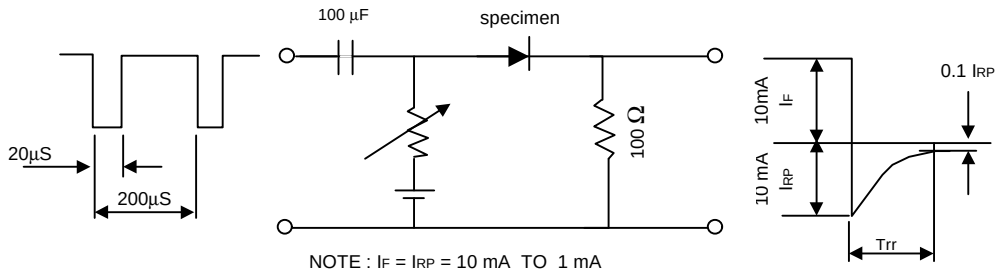
Rating at 25 °C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

RATING	SYMBOL	EU01Z	EU01	EU01A	UNIT
Maximum Peak Reverse Voltage	V_{RM}	200	400	600	V
Maximum Peak Reverse Surge Voltage	V_{RSM}	250	450	650	V
Maximum Average Forward Current	$I_{F(AV)}$	0.25			A
Maximum Peak Forward Surge Current (50 Hz, Half-cycle, Sine wave, Single Shot)	I_{FSM}	15			A
Maximum Forward Voltage at I_F = 0.25 A	V_F	2.5			V
Maximum Reverse Current at Reverse Voltage Ta = 25 °C	I_R	10			µA
Maximum Reverse Current at Reverse Voltage Ta = 100 °C	$I_{R(H)}$	150			µA
Maximum Reverse Recovery Time (Note 1)	Trr	0.4			µs
Junction Temperature Range	T_J	- 40 to + 150			°C
Storage Temperature Range	T_{STG}	- 40 to + 150			°C

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

RATING AND CHARACTERISTIC CURVES (EU01 ~ EU01A)

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



NOTE : $I_F = I_{RP}$ = 10 mA TO 1 mA

FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

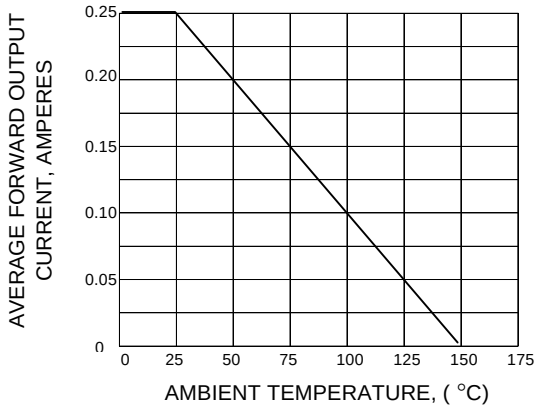


FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

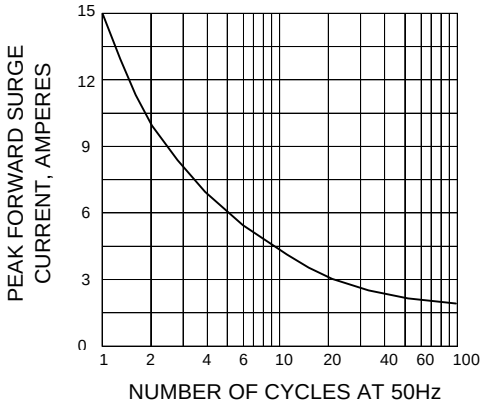


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

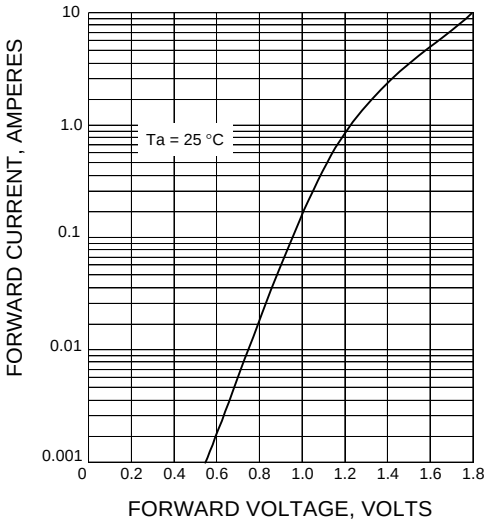


FIG.5 - TYPICAL REVERSE CHARACTERISTICS