## **EU02D THRU EU02J**

# Glass Passivated Junction Ultra Fast Recovery Plastic Rectifiers

VOLTAGE:200 TO 600V CURRENT: 1.0A



#### **FEATURE**

Low power loss High surge capability Glass passivated chip junction Ultra-fast recovery time for high efficiency High temperature soldering guaranteed 250°C/10sec/0.375″ lead length at 5 lbs tension

#### **MECHANICAL DATA**

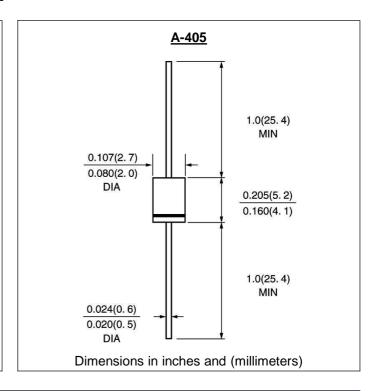
Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C

Case: Molded with UL-94 Class V-0 recognized Flame

Retardant Epoxy

Polarity: color band denotes cathode

Mounting position: any



#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	SYMBOL	EU02D	EU02G	EU02J	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	200	400	600	V
Maximum RMS Voltage	Vrms	140	280	420	V
Maximum DC blocking Voltage	Vdc	200	400	600	V
Maximum Average Forward Rectified Current 3/8"lead length at Ta =55°C	If(av)	1.0			А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	30			А
Maximum Forward Voltage at rated Forward Current and 25°C	Vf	1.4 (IF=1.0A)			V
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =125°C	lr	10 50			μA μA
Maximum Reverse Recovery Time (Note 1)	Trr	100			nS
Typical Junction Capacitance (Note 2)	Cj	1	7	15	pF
Typical Thermal Resistance (Note 3)	R(ja)	5	50	60	°C
Storage and Operating Temperature Range	Tstg, Tj	-55 to +150			°C

### Note:

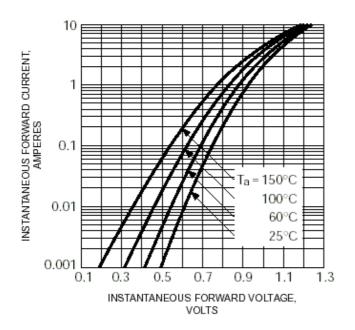
- 1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A
- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- 3. Thermal Resistance from Junction to Ambient at 3/8"lead length, P.C. Board Mounted

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#### **RATINGS AND CHARACTERISTIC CURVES EU02D THRU EU02J**

FIG. 1 - MAXIMUM FORWARD CURRENT DERATING CURVE 1.0 RESISTIVE ÓR INDUCTIVE LOAD 0.375" (9.5mm) AVERAGE FORWARD RECTIFIED CURRENT, AMPERES LEAD LENGTH 0.5 20 40 60 80 100 120 140 160 AMBIENT TEMPERATURE, °C

FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



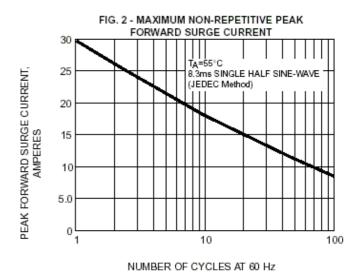
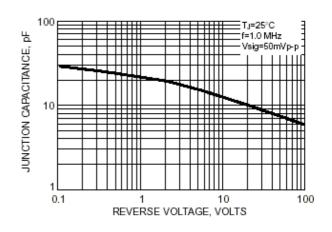


FIG. 4 - TYPICAL JUNCTION CAPACITANCE



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