

# EU02D THRU EU02J

## Glass Passivated Junction Ultra Fast Recovery Plastic Rectifiers

VOLTAGE: 200 TO 600V

CURRENT: 1.0A

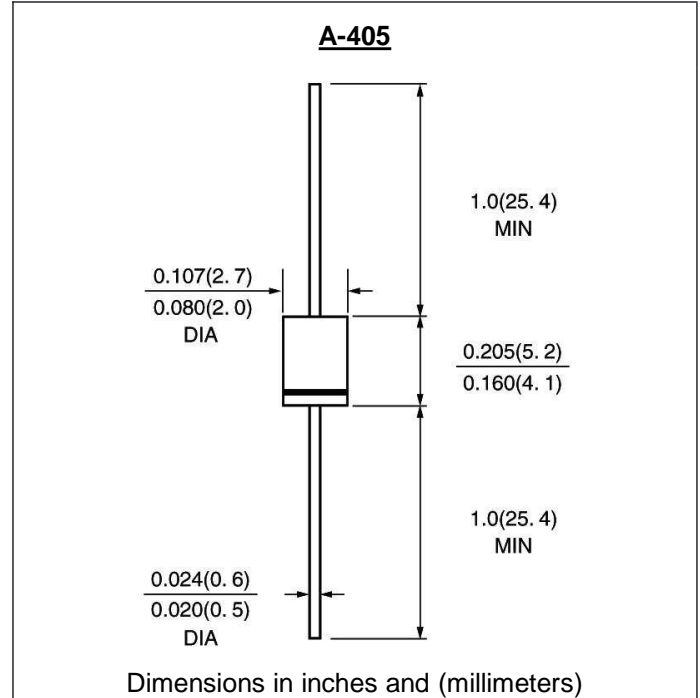


### FEATURE

- 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	V <sub>rrm</sub>	200	400	600	V
Maximum RMS Voltage	V <sub>rms</sub>	140	280	420	V
Maximum DC blocking Voltage	V <sub>dc</sub>	200	400	600	V
Maximum Average Forward Rectified Current 3/8"lead length at Ta =55°C	I <sub>f(av)</sub>	1.0			A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I <sub>fsm</sub>	30			A
Maximum Forward Voltage at rated Forward Current and 25°C	V <sub>f</sub>	1.4 (I <sub>F</sub> =1.0A)			V
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =125°C	I <sub>r</sub>	10 50			μA μA
Maximum Reverse Recovery Time (Note 1)	T <sub>rr</sub>	100			nS
Typical Junction Capacitance (Note 2)	C <sub>j</sub>	17		15	pF
Typical Thermal Resistance (Note 3)	R(ja)	50		60	°C/W
Storage and Operating Temperature Range	T <sub>stg</sub> , T <sub>j</sub>	-55 to +150			°C

#### Note:

- Reverse Recovery Condition I<sub>f</sub> =0.5A, I<sub>r</sub> =1.0A, I<sub>rr</sub> =0.25A
- Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- Thermal Resistance from Junction to Ambient at 3/8"lead length, P.C. Board Mounted

RATINGS AND CHARACTERISTIC CURVES EU02D THRU EU02J

1

FIG. 1 - MAXIMUM FORWARD CURRENT DERATING CURVE

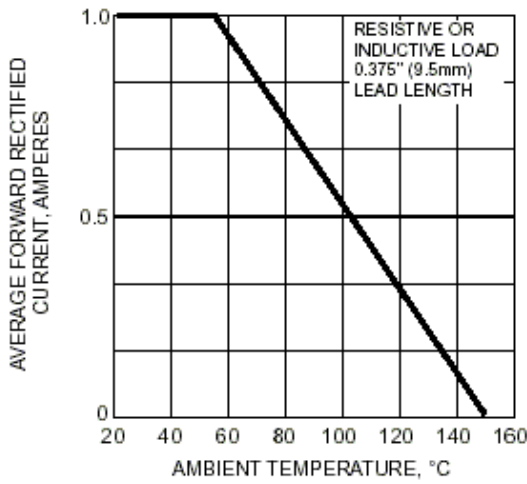


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

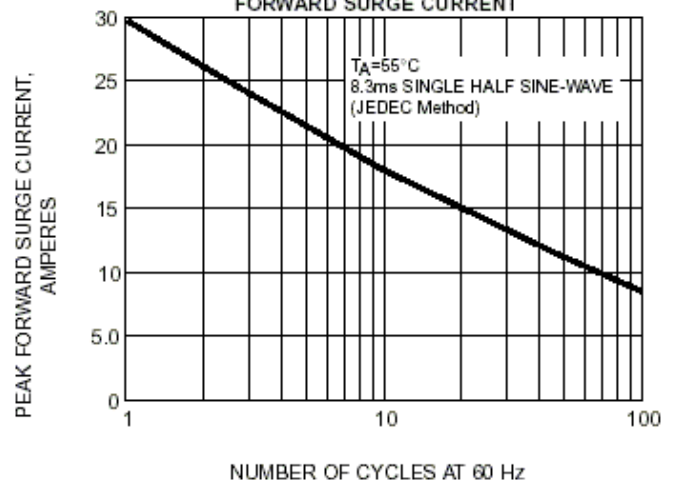


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

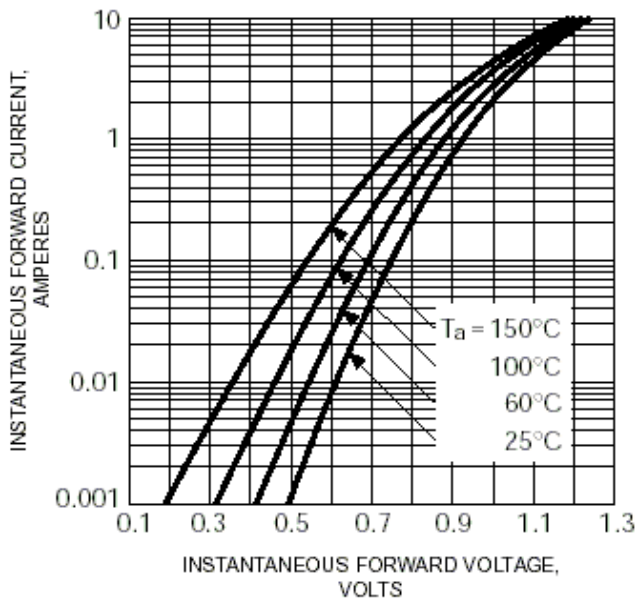


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

