

# FL400 THRU FL408

## IN-LINE MINIATURE SINGLE PHASE SILICON BRIDGE VOLTAGE - 50 to 800 Volts CURRENT - 4.0 Amperes

**Recongnized File #E111753**

### FEATURES

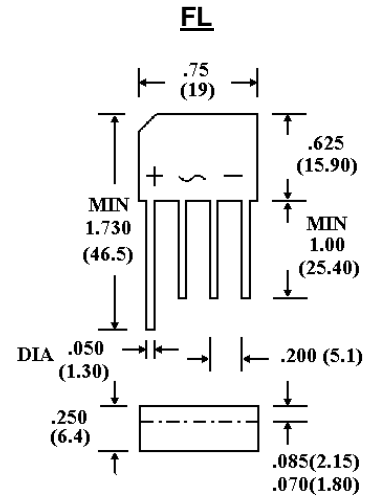
- Surge overload rating: 200 Amperes peak
- Ideal for printed circuit board
- Plastic package has Underwriter Laboratory Flammability Classification 94V-O
- Reliable low cost construction utilizing molded plastic technique

### MECHANICAL DATA

Terminals: Lead solderable per MIL-STD-202,  
Method 208

Mounting position: Any

Weight: 0.2 ounce, 5.6 grams



Dimensions in inches and (millimeters)

	FL400	FL401	FL402	FL404	FL406	FL408	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	V
Maximum RMS Bridge Input Voltage	35	70	140	280	420	560	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	V
Maximum Average Rectified Output Current at 50 ºC Ambient	4.0						A
Peak One Cycle Surge Overload Current	200						A
Maximum Forward Voltage Drop per Bridge Element at 4.0A DC	1.1						V
Max (Total Bridge) Reverse Leakage at Rated DC Blocking Voltage	10.0						µg A
Max (Total Bridge) Reverse Leakage at Rated DC Blocking Voltage and 100 ºC	1.0						mA
I <sup>2</sup> t Rating for fusing ( t<8.3ms)	93.0						A <sup>2</sup> Sec
Typical Thermal Resistance per leg(Note 2) R <sub>θJA</sub> (Note 3) R <sub>θJL</sub>	19.0 2.4						ºC/W
Operating Temperature Range	-55 TO +125						ºC
Storage Temperature Range	-55 TO +150						ºC

### NOTES:

1. Thermal resistance from junction to ambient with units mounted on 3.0 x 3.0 x 0.11" thick (7.5 x 7.5 x 0.3cm) AL Plate.
2. Thermal resistance from junction to lead with units mounted on P.C.B at 0.375"(9.5mm) lead length and 0.5 x 0.5" (12 x 12mm) copper pads.

## RATING AND CHARACTERISTIC CURVES

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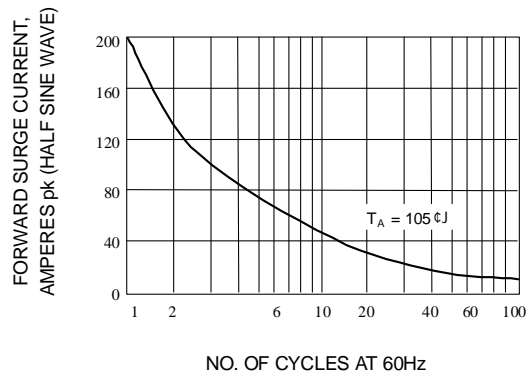


Fig. 1- MAXIMUM OVERLOAD SURGE CURRENT

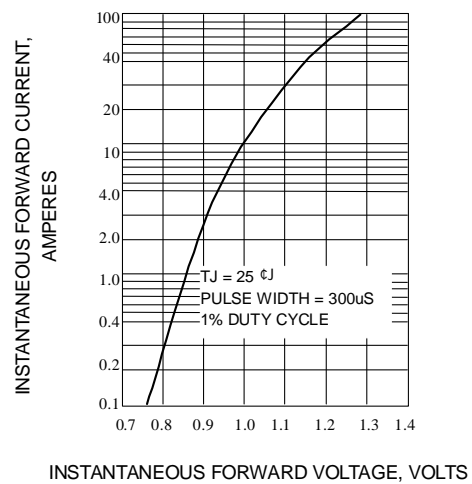


Fig. 2-TYPICAL FORWARD CHARACTERISTICS(25 °C)

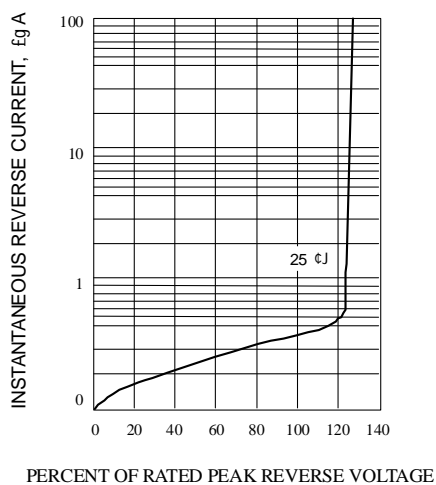


Fig. 3- REVERSE CHARACTERISTICS

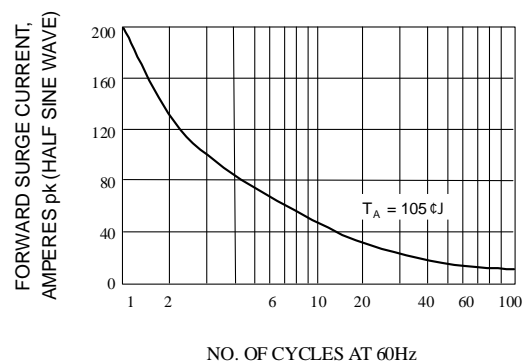


Fig. 4-NON-RECURRENT SURGE RATING