

FL400 THRU FL408

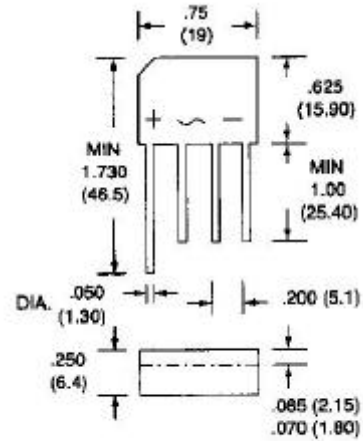
IN-LINE MINIATURE SINGLE PHASE SILICON BRIDGE

VOLTAGE - 50 to 800 Volts CURRENT - 4.0 Amperes

FL

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



Dimensions in inches and (millimeters)

MECHANICAL DATA

Terminals: Lead solderable per MIL-STD-202,

Method 208

Mounting position: Any

Weight: 0.2 ounce, 5.6 grams

	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 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						A
Max (Total Bridge) Reverse Leakage at Rated DC Blocking Voltage and 100	1.0						mA
I ² t Rating for fusing (t<8.3ms)	93.0						A ² Sec
Typical Thermal Resistance per leg(Note 2) R JA (Note 3) R JL	19.0 2.4						/W
Operating Temperature Range	-55 TO +125						
Storage Temperature Range	-55 TO +150						

NOTES:

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

RATING AND CHARACTERISTIC CURVES

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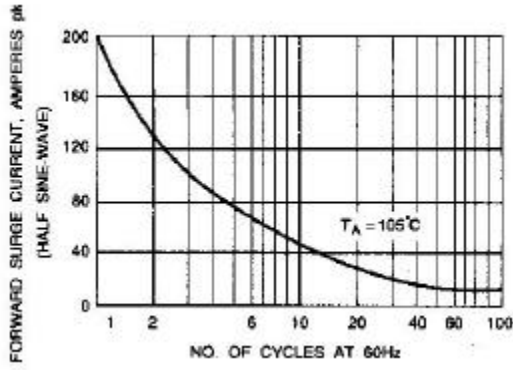


Fig. 1-MAXIMUM OVERLOAD SURGE CURRENT

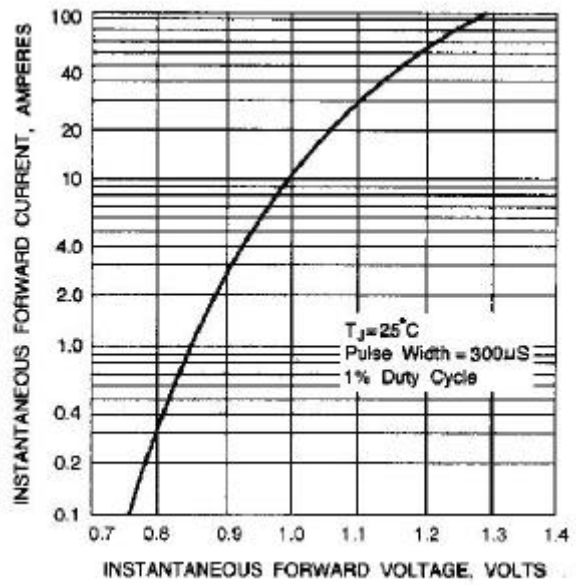


Fig. 2-TYPICAL FORWARD CHARACTERISTICS

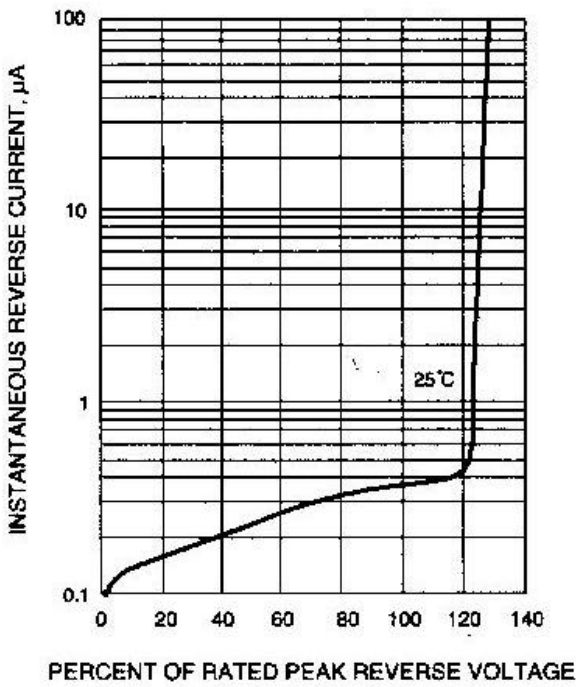


Fig. 3-REVERSE CHARACTERISTICS

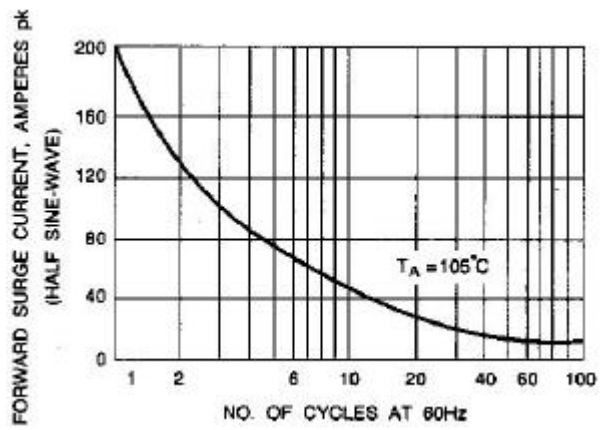


Fig. 4- NON-RECURRENT SURGE RATING