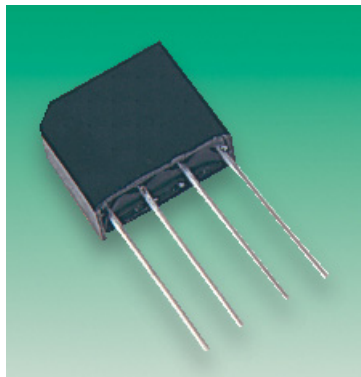


FL400 Series

Single Phase Bridge Rectifiers

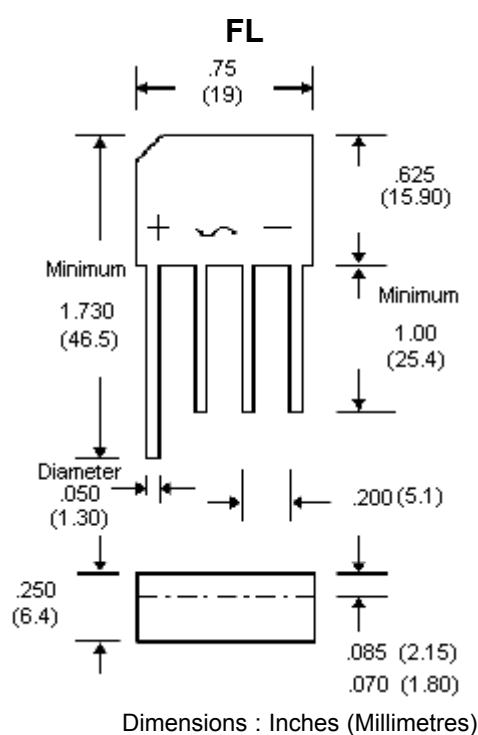


Features:

- In-line miniature single phase silicon bridge.
- Surge overload rating: 200 Amperes peak.
- Ideal for printed circuit board.
- Reliable low cost construction utilizing moulded plastic technique.

Mechanical Data:

Terminals	: Lead solderable per MIL-STD-202, Method 208.
Mounting position	: Any.
Weight	: 0.2 ounce, 5.6 grams.



Parameter	FL401	FL402	FL406	Units
Maximum recurrent peak reverse voltage	100	200	600	V
Maximum RMS bridge input voltage	70	140	420	
Maximum DC blocking voltage	100	200	600	
Maximum average rectified output current at 50°C ambient	4.0			A
Peak one cycle surge overload current	200			
Maximum forward voltage drop per bridge element at 4.0A dc	1.1			V
Maximum (Total bridge) reverse leakage at rated DC blocking voltage	10.0			μA

FL400 Series

Single Phase Bridge Rectifiers



Parameter	FL401	FL402	FL406	Units
Maximum (Total bridge) reverse leakage at rated DC blocking voltage and 100°C	1.0			mA
I²t Rating for fusing (t <8.3ms)	93.0			A² Seconds
Typical thermal resistance per leg (Note 2) RθJA (Note 3) RθJL	19.0 2.4			°C/W
Operating temperature range	-55 to +125			°C
Storage temperature range	-55 to +150			

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) Aluminium plate.
2. Thermal resistance from junction to lead with units mounted on PCB at 0.375" (9.5mm) lead length and 0.5 x 0.5" (12 x 12mm) copper pads.

Rating and Characteristics Curves

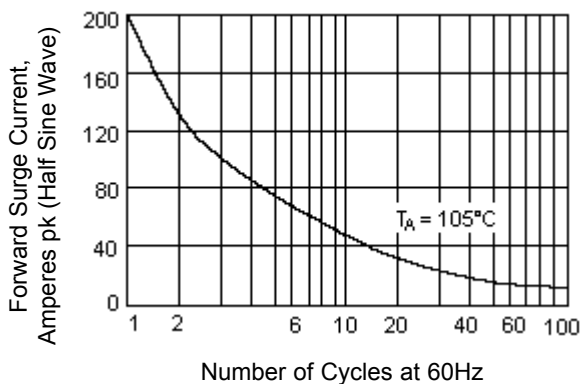


Figure 1 - Maximum Overload Surge Current

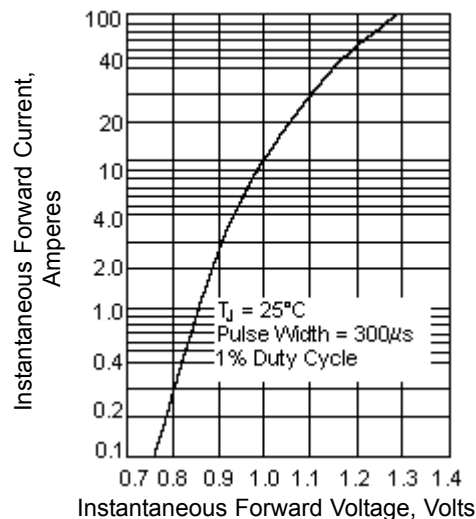


Figure 2 - Typical Forward Characteristics (25°C)

FL400 Series

Single Phase Bridge Rectifiers

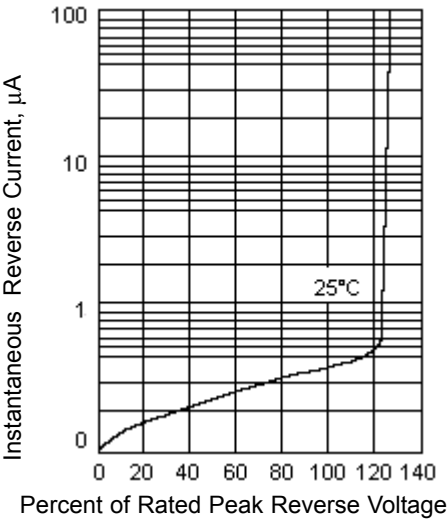


Figure 3 - Reverse Characteristics

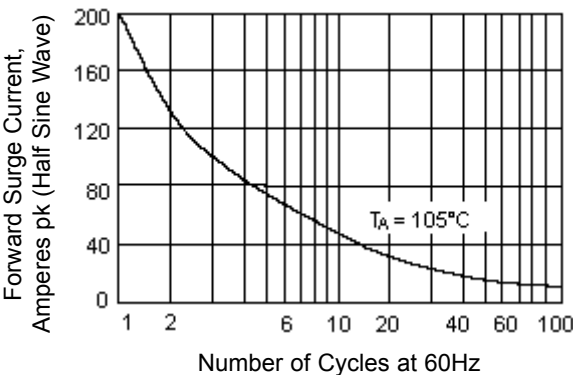


Figure 4 - Non-Recurrent Surge Rating

Specifications

V _{RRM} (V)	Maximum Input Voltage (V ac)	Pin Spacing	Current Rating (A)	Body			Part Number
				Height	Width	Depth	
100	70	5.1	4	15.9	19.0	6.4	FL401
200	140						FL402
600	420						FL406

Dimensions : Millimetres



FL400 Series

Single Phase Bridge Rectifiers



Notes:

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