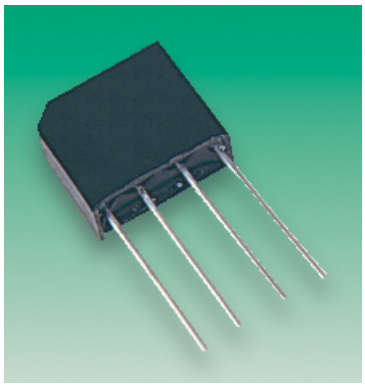
FL400 Series

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.

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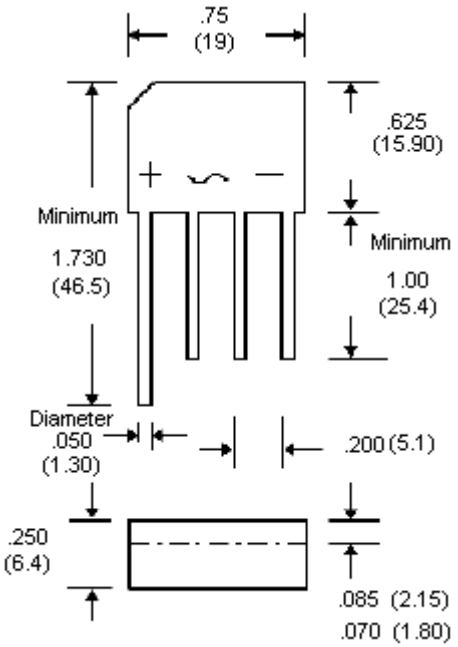

Dimensions : Inches (Millimetres)

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

Parameter		FL401	FL402	FL406	Units
Maximum (Total bridge) reverse leakage at rated DC blocking voltage and 100°C		1.0			mA
I^2t Rating for fusing (t <8.3ms)		93.0			A^2 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

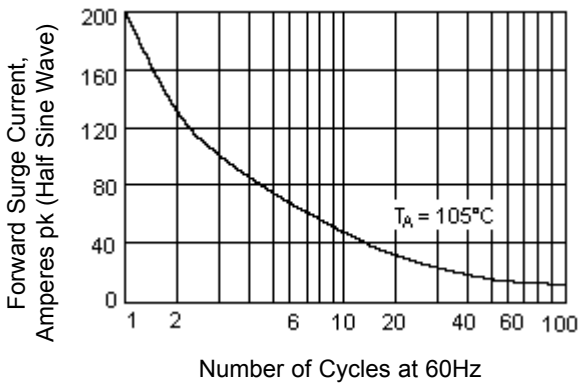

Figure 1 - Maximum Overload Surge Current

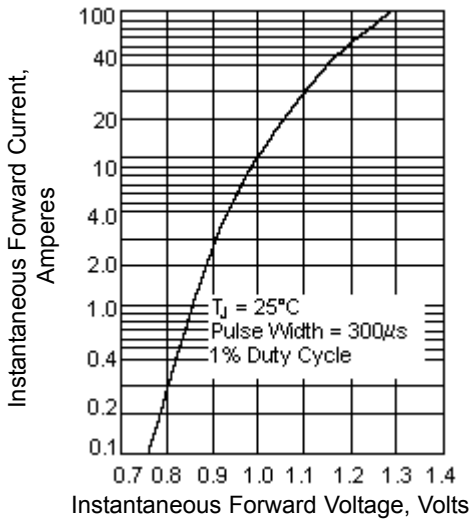

Figure 2 - Typical Forward Characteristics (25°C)

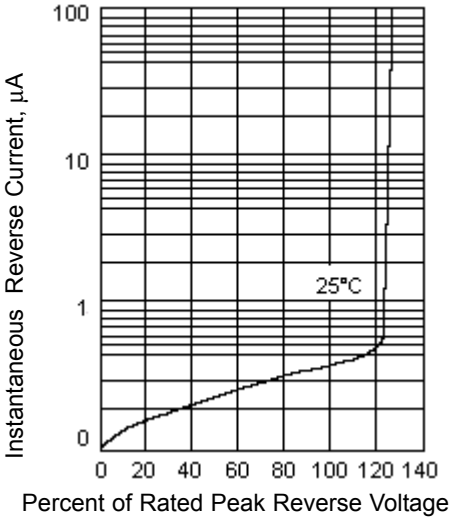

Figure 3 - Reverse Characteristics

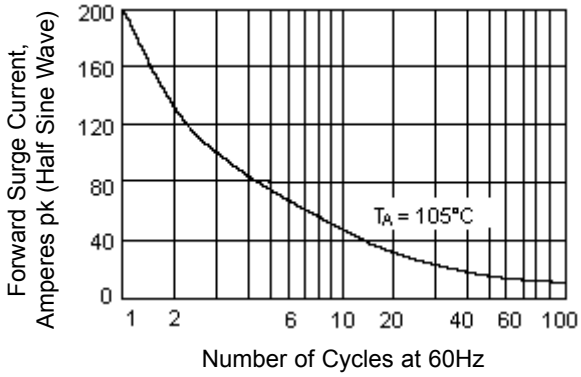

Figure 4 - Non-Recurrent Surge Rating

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