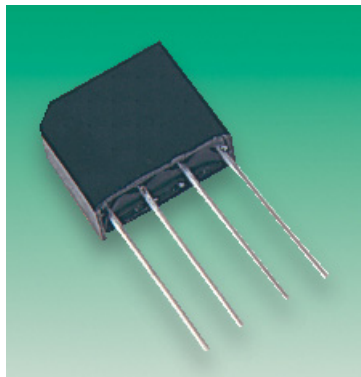


FL400 Series

Single Phase Bridge Rectifiers

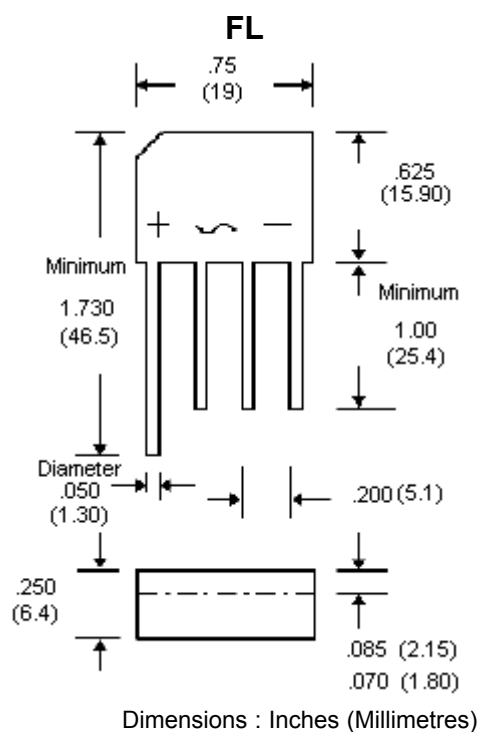


Features:

- 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
I ² t 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

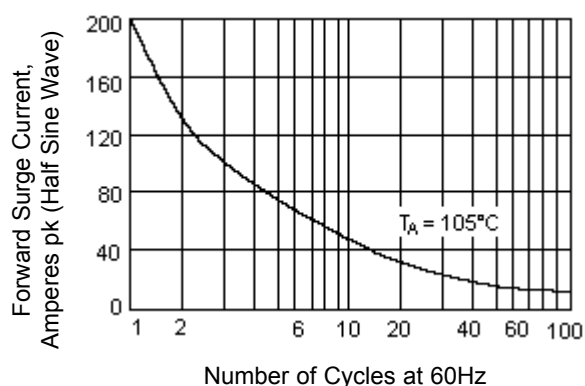


Figure 1 - Maximum Overload Surge Current

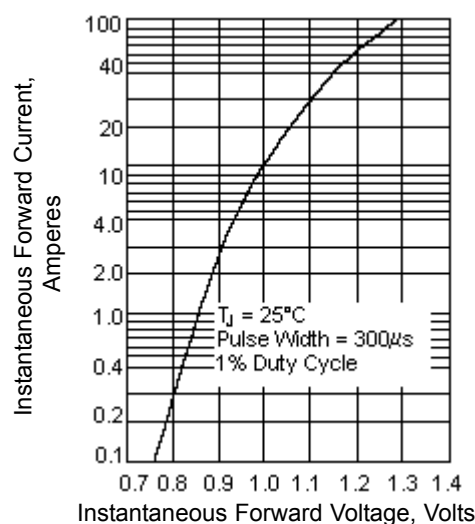


Figure 2 - Typical Forward Characteristics (25°C)

FL400 Series

Single Phase Bridge Rectifiers

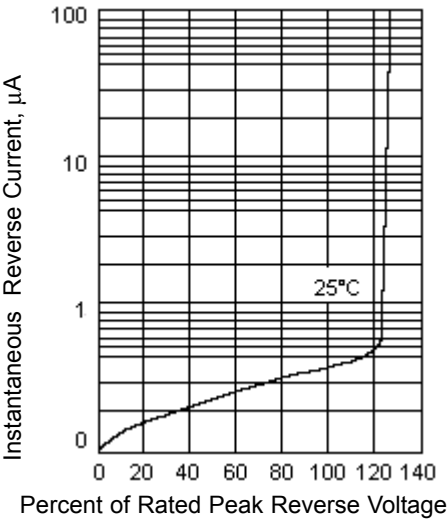


Figure 3 - Reverse Characteristics

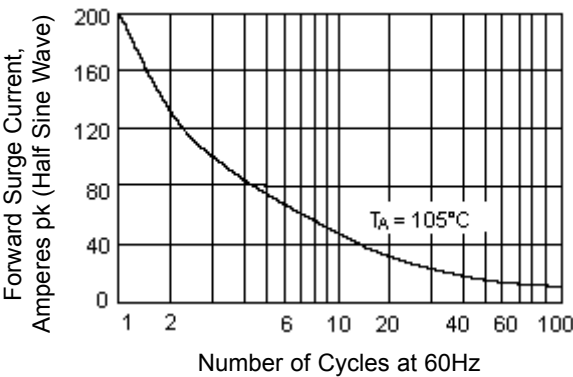


Figure 4 - Non-Recurrent Surge Rating

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:

International Sales Offices:



AUSTRALIA – Farnell InOne
Tel No: ++ 61 2 9645 8888
Fax No: ++ 61 2 9644 7898



FINLAND – Farnell InOne
Tel No: ++ 358 9 560 7780
Fax No: ++ 358 9 345 5411



NETHERLANDS – Farnell InOne
Tel No: ++ 31 30 241 7373
Fax No: ++ 31 30 241 7333



SWITZERLAND – Farnell InOne
Tel No: ++ 41 1 204 64 64
Fax No: ++ 41 1 204 64 54



AUSTRIA – Farnell InOne
Tel No: ++ 43 662 2180 680
Fax No: ++ 43 662 2180 670



FRANCE – Farnell InOne
Tel No: ++ 33 474 68 99 99
Fax No: ++ 33 474 68 99 90



NEW ZEALAND – Farnell InOne
Tel No: ++ 64 9 357 0646
Fax No: ++ 64 9 357 0656



UK – Farnell InOne
Tel No: ++ 44 8701 200 200
Fax No: ++ 44 8701 200 201



BELGIUM – Farnell InOne
Tel No: ++ 32 3 475 2810
Fax No: ++ 32 3 227 3648



GERMANY – Farnell InOne
Tel No: ++ 49 89 61 39 39 39
Fax No: ++ 49 89 613 59 01



NORWAY – Farnell InOne
Tel No: ++ 45 44 53 66 66
Fax No: ++ 45 44 53 66 02



UK – BuckHickman InOne
++ 44 8450 510 150
++ 44 8450 510 130



BRAZIL – Farnell-Newark InOne
Tel No: ++ 55 11 4066 9400
Fax No: ++ 55 11 4066 9410



HONG KONG – Farnell-Newark InOne
Tel No: ++ 852 2268 9888
Fax No: ++ 852 2268 9899



PORTUGAL – Farnell InOne
Tel No: ++ 34 93 475 8804
Fax No: ++ 34 93 474 5288



UK – CPC
++ 44 8701 202 530
++ 44 8701 202 531



CHINA – Farnell-Newark InOne
Tel No: ++86 10 6238 5152
Fax No: ++86 10 6238 5022



IRELAND – Farnell InOne
Tel No: ++ 353 1 830 9277
Fax No: ++ 353 1 830 9016



SINGAPORE – Farnell-Newark InOne
Tel No: ++ 65 6788 0200
Fax No: ++ 65 6788 0300



EXPORT – Farnell InOne
Tel No: ++ 44 8701 200 208
Fax No: ++ 44 8701 200 209

For enquiries from all other markets



DENMARK – Farnell InOne
Tel No: ++ 45 44 53 66 44
Fax No: ++ 45 44 53 66 06



ITALY – Farnell InOne
Tel No: ++ 39 02 93 995 200
Fax No: ++ 39 02 93 995 300



SPAIN – Farnell InOne
Tel No: ++ 34 93 475 8805
Fax No: ++ 34 93 474 5107



ESTONIA – Farnell InOne
Tel No: ++ 358 9 560 7780
Fax No: ++ 358 9 345 5411



MALAYSIA – Farnell-Newark InOne
Tel No: ++ 60 3 7873 8000
Fax No: ++ 60 3 7873 7000



SWEDEN – Farnell InOne
Tel No: ++ 46 8 730 50 00
Fax No: ++ 46 8 83 52 62

<http://www.farnellinone.com>

<http://www.buckhickmaninone.com>

<http://www.cpc.co.uk>

Disclaimer This data sheet and its contents (the "Information") belong to the Premier Farnell Group (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp is the registered trademark of the Group. © Premier Farnell plc 2004.

