Single Phase Bridge Rectifiers





Features:

- Surge overload ratings to 40 amperes peak.
- Ideal for printed circuit board.
- Reliable low cost construction technique results in inexpensive product.
- High temperature soldering

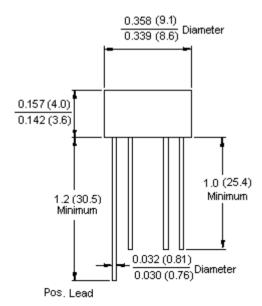
guaranteed : 250°C/10 seconds/0.375" (9.5mm)

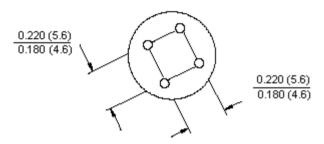
lead length at lbs., (2.3kg) tension.

Mechanical Data:

Cases : Moulded plastic.
Lead : Solder plated.
Polarity : As marked.

RB-15





Dimensions: Inches (Millimetres)



Page 1 08/04/06 V1.0





Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Type Number	W01	W02	W04	W06	W08	W10	Unit
Maximum recurrent peak reverse voltage	100	200	400	600	800	1000	
Maximum RMS voltage	70	140	280	420	560	700	V
Maximum DC blocking voltage	100	200	400	600	800	1000	
Maximum average forward rectified current at T _A = 50°C		1.5					
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	40					A	
Maximum instantaneous forward voltage at 1.0A	1.0					V	
Maximum DC reverse current at $T_A = 25^{\circ}C$ at rated DC blocking voltage at $T_A = 100^{\circ}C$		10 500				μА	
Typical thermal resistance (Note) RθJA RθJL	36 13					°C/W	
Operating temperature range T _J		-55 to +125					°C
Storage temperature range T _{STG}		-55 to +150					

Note:

Ratings and Characteristic Curves

Figure 1 Maximum Non-Repetitive Forward Surge Current Per Bridge Element

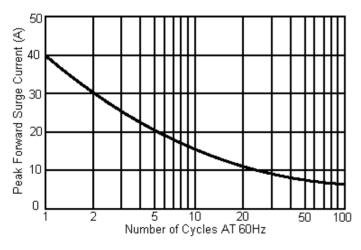
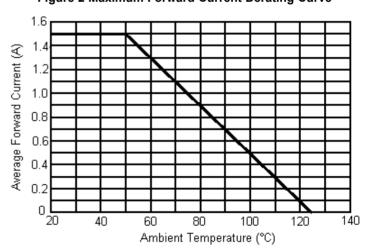


Figure 2 Maximum Forward Current Derating Curve



multicomp

Page 2 08/04/06 V1.0

^{1.}Thermal resistance from junction to ambient and from junction to lead mounted on PCB with 0.47 x 0.47" (12 x 12mm) copper pads.



Single Phase Bridge Rectifiers

Figure 3 Typical Instantaneous Forward Characteristics Per Bridge Element

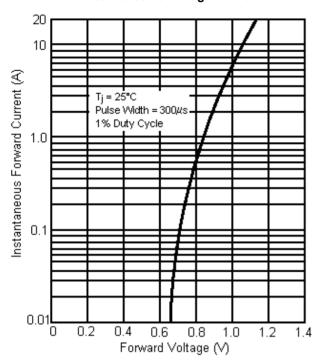
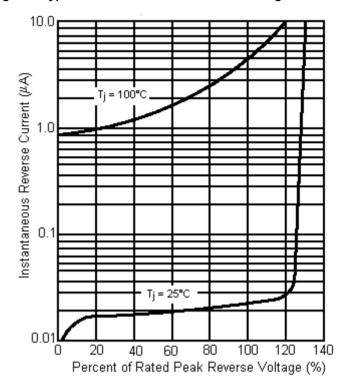


Figure 4 Typical Reverse Characteristics Per Bridge Element



Specifications

V _{RRM} (V)	Maximum Input Voltage (V ac)	Series	I _{FSM} (A)	Part Number
100	70	w		W01
200	140			W02
400	280		40	W04
600	420			W06
800	560			W08.
1000	700			W10



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



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 -

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

For enquiries from all other markets

++ 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



Farnell-Newark InOne
Tel No: ++ 65 6788 0200

Fax No: ++ 65 6788 0300



Tel No: ++ 44 8701 200 208

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



Tel No: ++ 60 3 7873 8000



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.



08/04/06 V1.0 Page 4