

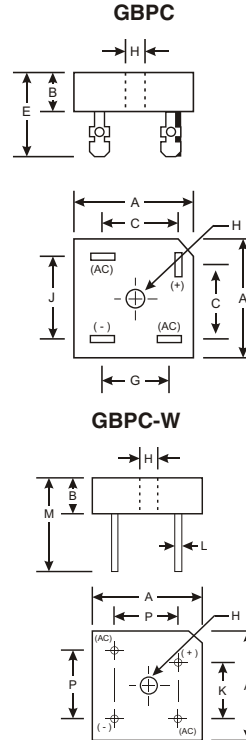
Features

Glass Passivated Die Construction
 Low Reverse Leakage Current
 Low Power Loss, High Efficiency
 Surge Overload Rating to 400A Peak
 Metal Base for Maximum Heat Dissipation
 Case to Terminal Isolation Voltage 1500V
 UL Listed Under Recognized Component Index, File Number E94661

Lead Free Finish, RoHS Compliant (Note 4)

Mechanical Data

Case: GBPC / GBPC-W
 Case Material: Molded Plastic with Heatsink Internally Mounted in the Bridge Encapsulation. UL Flammability Classification Rating 94V-0
 Moisture Sensitivity: Level 1 per J-STD-020C
 Terminals: Finish Silver. Plated Leads Solderable per MIL-STD-202, Method 208 **(e3)**
 Polarity: As Marked on Case
 Mounting: Through Hole for #10 Screw
 Mounting Torque: 8.0 Inch-pounds Maximum
 Ordering Information: See Last Page
 Marking: Type Number
 GBPC Weight: 20 grams (approximate)
 GBPC-W Weight: 14 grams (approximate)



GBPC / GBPC-W		
Dim	Min	Max
A	28.30	28.80
B	7.40	8.25
C	16.10	17.10
E	18.80	21.30
G	13.80	14.80
H	Hole for #10 screw	
	5.08	5.59
J	17.60	18.60
K	10.90	11.90
L	0.97	1.07
M	31.80	
P	17.60	18.60
All Dimensions in mm		

"W" Suffix Designates Wire Leads
 No Suffix Designates Faston Terminals

Maximum Ratings and Electrical Characteristics @ T_A = 25 °C unless otherwise specified

Single phase, 60Hz, resistive or inductive load.
 For capacitive load, derate current by 20%.

Characteristic	Symbol	GBPC35005/W	GBPC3501/W	GBPC3502/W	GBPC3504/W	GBPC3506/W	GBPC3508/W	GBPC3510/W	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Working Peak Reverse Voltage	V _{RWM}								
DC Blocking Voltage	V _R								
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	280	420	560	700	V
Average Rectified Output Current @ T _C = 50 °C	I _O	35							A
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	400							A
Forward Voltage (per element) @ I _F = 17.5A	V _{FM}	1.1							V
Peak Reverse Current @ T _C = 25 °C	I _R	5.0							A
at Rated DC Blocking Voltage @ T _C = 125 °C		500							
I ² t Rating for Fusing (Note 1)	I ² t	660							A ² s
Typical Total Capacitance (Note 2)	C _T	300							pF
Typical Thermal Resistance per leg (Note 3)	R _{JC}	1.2							°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +150							°C

- Notes:
1. Non-repetitive, for t > 1.0ms and t < 8.3ms.
 2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
 3. Thermal resistance junction to case mounted on heatsink.
 4. RoHS revision 13.2.2003. Glass and High Temperature Solder Exemptions Applied, see EU Directive Annex Notes 5 and 7.

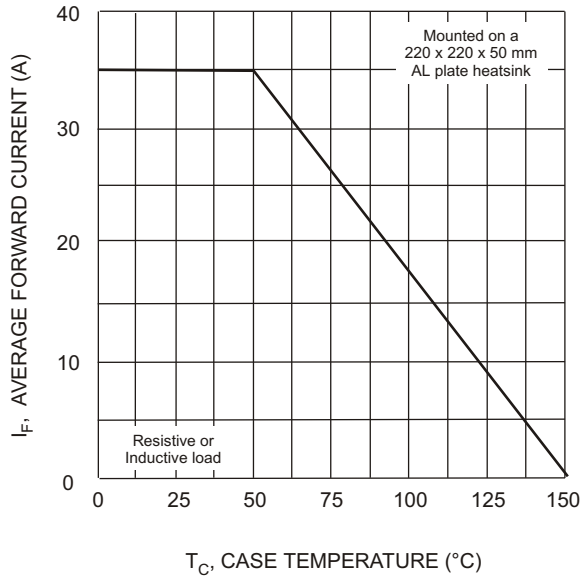


Fig. 1 Forward Current Derating Curve

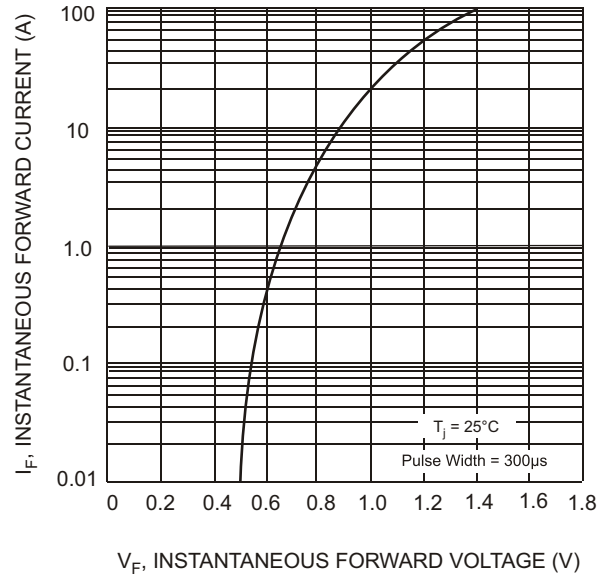


Fig. 2 Typical Forward Characteristics (per element)

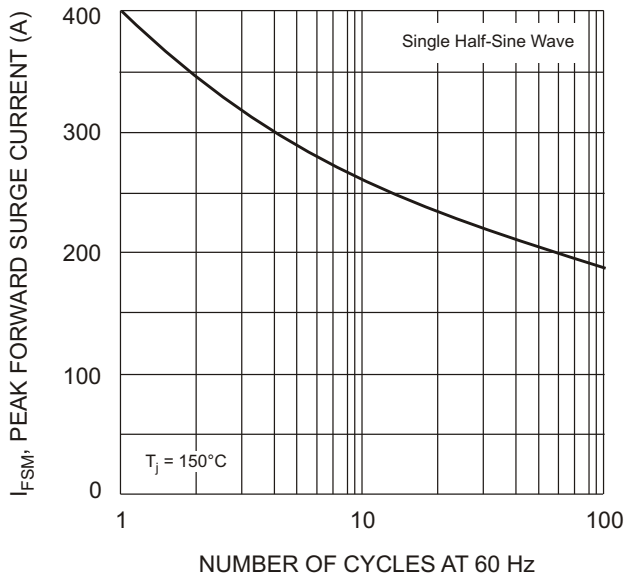


Fig. 3 Max Non-Repetitive Surge Current

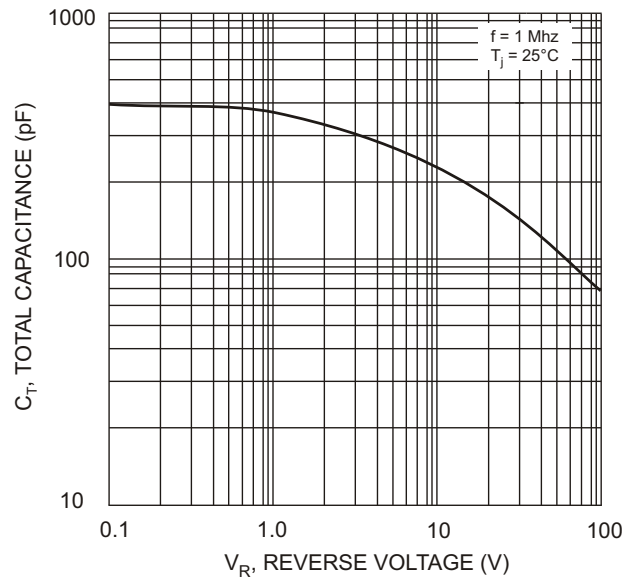


Fig. 4 Typical Total Capacitance (per element)

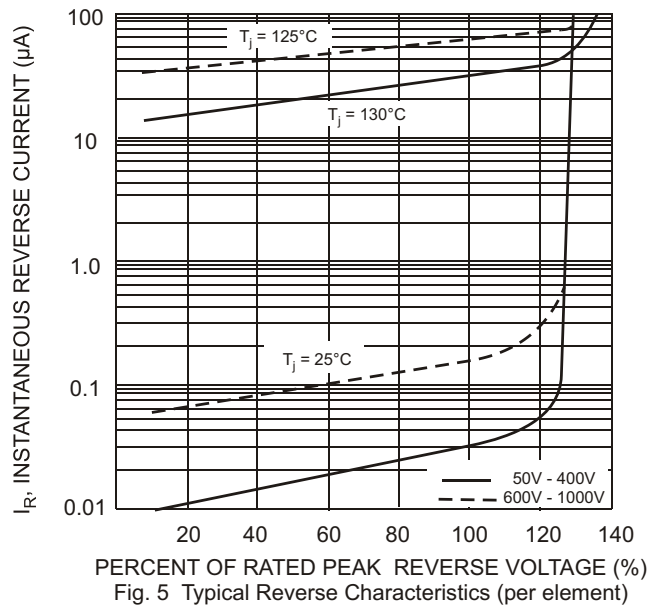


Fig. 5 Typical Reverse Characteristics (per element)

Ordering Information (Note 5)

Device	Packaging	Shipping
GBPC35005	GBPC	100/Tray
GBPC3501	GBPC	100/Tray
GBPC3502	GBPC	100/Tray
GBPC3504	GBPC	100/Tray
GBPC3506	GBPC	100/Tray
GBPC3508	GBPC	100/Tray
GBPC3510	GBPC	100/Tray
GBPC35005W	GBPC-W	100/Tray
GBPC3501W	GBPC-W	100/Tray
GBPC3502W	GBPC-W	100/Tray
GBPC3504W	GBPC-W	100/Tray
GBPC3506W	GBPC-W	100/Tray
GBPC3508W	GBPC-W	100/Tray
GBPC3510W	GBPC-W	100/Tray

Notes: 5. For packaging details, visit our website at <http://www.diodes.com/datasheets/ap2008.pdf>.

IMPORTANT NOTICE

Diodes Incorporated and its subsidiaries reserve the right to make modifications, enhancements, improvements, corrections or other changes without further notice to any product herein. Diodes Incorporated does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold Diodes Incorporated and all the companies whose products are represented on our website, harmless against all damages.

LIFE SUPPORT

Diodes Incorporated products are not authorized for use as critical components in life support devices or systems without the expressed written approval of the President of Diodes Incorporated.

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9