

# **GBPC35005(W) thru 3510(W)**

### **GLASS PASSIVATED BRIDGE RECTIFIERS**

REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 35 Amperes

#### **FEATURES**

- Rating to 1000V PRV
- High efficiency
- Glass passivated chip junction
- Electrically isolated metal case for maximum heat dissipation
- The plastic material has UL flammability classification 94V-0
- UL Recognition File # E95060

#### **MECHANICAL DATA**

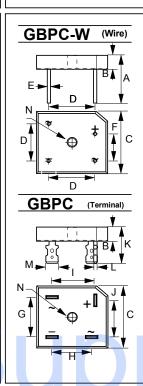
• Case : Molded plastic with Heatsink internally mounted in the bridge encapsulation

Polarity : As marked on BodyMounting : Hole for # 10 screw

Weight: 0.63 ounces, 18.0 grams (terminal)

O.51 ounces, 14.5 grams (term)

: 0.51 ounces , 14.5 grams (wire)



GBPC/GBPC-W							
DIM.	MIN.	MAX.					
Α	31.80	-					
В	7.40	8.00					
С	28.30	28.80					
D	17.60	18.60					
Е	0.97	1.07					
F	10.90	11.90					
G	17.60	18.60					
Н	13.80	14.80					
ı	16.10	17.10					
J	16.10	17.10					
K	18.80	21.30					
L	0.76	0.86					
М	6.30	6.50					
N	HOLE FOR NO. 10 SCREW						
••	5.08	5.59					
All Dimensions in millimeter							

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25  $\!\!\!\!\!\!\!^{\circ}_{\circ}$  ambient temperature unless otherwise specified.

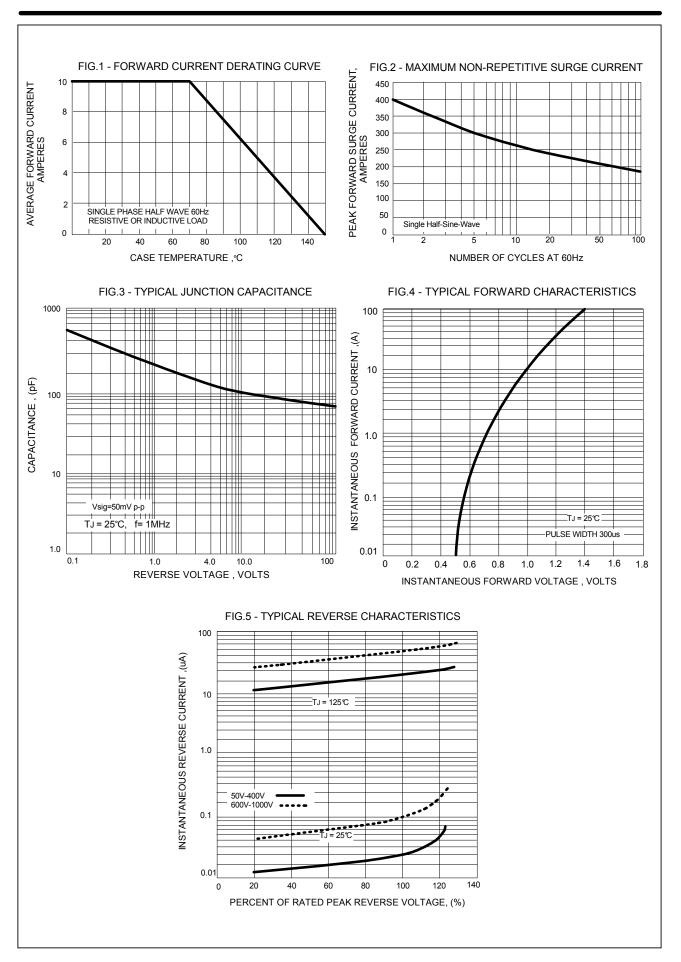
CHARACTERISTICS	SYMBOL	GBPC 35005/W	GBPC 3501/W	GBPC 3502/W	GBPC 3504/W	GBPC 3506/W	GBPC 3508/W	GBPC 3510/W	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @Tc = Ta	I(AV)				35.0				Α
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	IFSM				400				А
Maximum forward Voltage at 17.5A DC	VF				1.1				V
	lR				5.0 500				uA
I <sup>2</sup> t Rating for fusing (t < 8.3ms), (Note 1)	l² t				660				A <sup>2</sup> S
Typical Junction Capacitance per element (Note 2)	Сл				150				pF
Typical Thermal Resistance (Note 3, see Fig.1)	Rejc				5.0				°C/W
Operating Temperature Range	TJ				55 to +150	)			°C
Storage Temperature Range	Тѕтс			_	55 to +150	)			°C

NOTES: 1.Measured at non-repetitive, for greater than 1ms and less than 8.3ms

- 2.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 3.Device mounted on 300mm x 300mm x 1.6mm Cu Plate Heatsink.

REV. 4, Sep-2010, KBDH03







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