

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

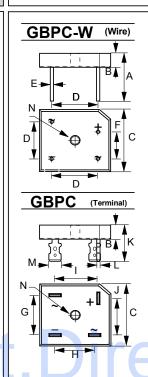
MECHANICAL DATA

• 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)

: 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				
I	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
Maximum DC Reverse Current at Rated DC Blocking Voltage @TJ =125°C @TJ =125°C	lR	5.0 500						uA	
I ² t Rating for fusing (t < 8.3ms), (Note 1)	l² t				660				A ² 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)			℃
Storage Temperature Range	Тѕтс			_	55 to +150)			°C

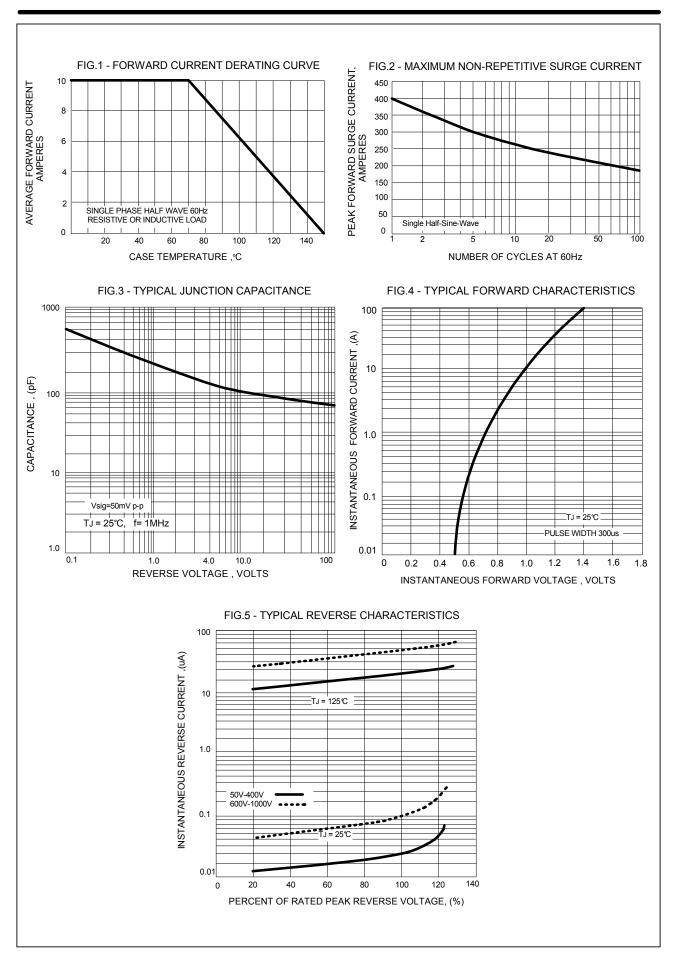
NOTES: 1.Measured at non-repetitive, for greater than 1ms and less than 8.3ms

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.

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