# SINGLE-PHASE GLASS PASSIVATED BRIDGE RECTIFIERS REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 35 Ampere

### 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 Electrically isolated base-2500 Volts

### **MECHANICAL DATA**

Case : Molded plastic with Heatsink internally mounted in the bridge encapsulation Polarity: As marked on Body Mounting : Hole for # 10 screw Weight : 0.47 ounces , 13.4 grams (wire)

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at  $25^{\circ}$ C ambient temperature unless otherwise specified, Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load derate current by 20%

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PARAMETER	SYMBOL	GBPC 35005W	GBPC 3501W	GBPC 3502W	GBPC 3504W	GBPC 3506W	GBPC 3508W	GBPC 3510W	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(with heatsink Note 2) Rectified Current @ $T_c=110^{\circ}C$ (without heatsink)	I(AV)	35.0							А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ігѕм	400							A
Maximum forward Voltage at 17.5A DC	VF	1.1							V
Maximum DC Reverse Current @TJ=25℃ at Rated DC Blocking voltage @TJ=125℃	IR	5.0 500							uA
I <sup>2</sup> t Rating for fusing(t<8.3ms)	l <sup>2</sup> t	660							A <sup>2</sup> S
Typical Junction Capacitance per element(Note 1)	CJ	150							pF
Typical Thermal Resistance (Note 2)	Rejc	1.4							°C/W
Operating Temperature Range	TJ	-55 to +150							°C
Storage Temperature Range	Tstg	-55 to +150							°C

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

2- Measured at 1.0M Hz and applied reversed voltage of 4.0 VDC.

3-Device mounted on 300mm x 300mm x 1.6mm Cu Plate Heatsink.

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Dimensions in inches and (millimeters)

1.135(28.8) .732(18.6) 1.115(28.3) .592(17.6 6 .732(18.6) 692 17 .042(1.07) .038(.97 1.25 (31.8) MIN. 0.310(7.87) 220(5.59) METAL HEAT SINK 0 200(5 08) HOLE FOR #10 SCREW

1.135(28.8)

1.115(28.3)

.470(11.0)

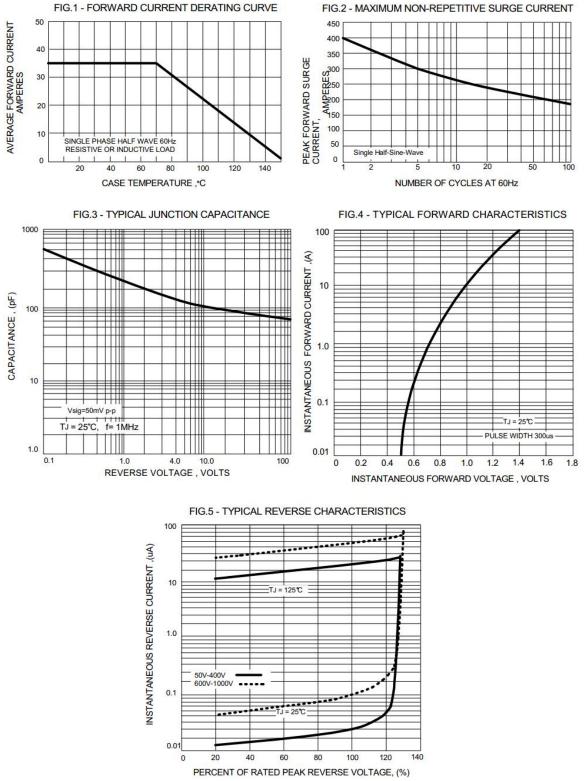
GBPC35005W

GBPC3510W

**GBPC-W** 

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Note: Specifications are subject to change without notice.

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