GBPC12, GBPC15, GBPC25, GBPC35



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ELECTRICAL CHARACTERISTICS ($T_A = 25$ °C unless otherwise noted)											
PARAMETER		TEST	SYMBOL	GBPC12, 15, 25, 35							UNIT
FANAMETEN		CONDITIONS	STNIDOL	005	01	02 04 06		08	10	UNIT	
Maximum instantaneous forward drop per diode	GBPC12	I _F = 6.0 A	- V _F								
	GBPC15	I _F = 7.5 A		1.1						v	
	GBPC25	I _F = 12.5 A									
	GBPC35	I _F = 17.5 A									
Maximum reverse DC current at rated		$T_A = 25 \ ^\circ C$		5.0							μA
DC blocking voltage per dic	de	T _A = 125 °C	I _R	500			μΑ				
Typical junction capacitance per diode		4 V, 1 MHz	CJ	300					pF		

THERMAL CHARACTERISTICS ($T_A = 25 \text{ °C}$ unless otherwise noted)										
PARAMETER		SYMBOL	GBPC12, 15, 25, 35							
			005	01	02	04	06	08	10	UNIT
Typical thermal resistance	GBPC12 to GBPC25	- R _{θJC} ⁽¹⁾				1.9				°C/W
Typical thermal resistance	GBPC35	ΠθJC (')	1.4							0/10

Notes

⁽¹⁾ With heatsink

(2) Bolt down on heatsink with silicone thermal compound between bridge and mounting surface for maximum heat transfer with #10 screw

ORDERING INFORMATION (Example)								
PREFERRED P/N	UNIT WEIGHT (g) PREFERRED PACKAGE CODE		BASE QUANTITY	DELIVERY MODE				
GBPC1206-E4/51	15.79	51	100	Paper box				
GBPC1506-E4/51	15.79	51	100	Paper box				
GBPC2506-E4/51	15.79	51	100	Paper box				
GBPC3506-E4/51	15.79	51	100	Paper box				
GBPC1206W-E4/51	13.8	51	100	Paper box				
GBPC1506W-E4/51	13.8	51	100	Paper box				
GBPC2506W-E4/51	13.8	51	100	Paper box				
GBPC3506W-E4/51	13.8	51	100	Paper box				

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RATINGS AND CHARACTERISTICS CURVES

(T_A = 25 °C unless otherwise noted)

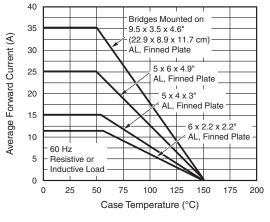


Fig. 1 - Maximum Output Rectified Current

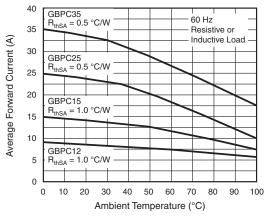


Fig. 2 - Maximum Output Rectified Current

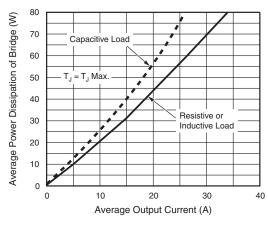


Fig. 3 - Maximum Power Dissipation

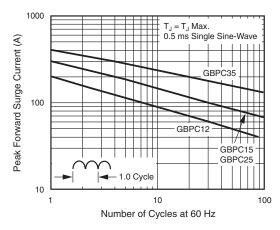


Fig. 4 - Maximum Non-Repetitive Peak Forward Surge Current Per Diode

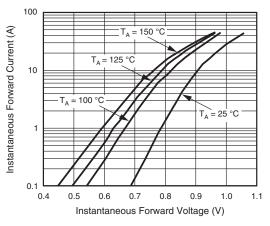


Fig. 5 - Typical Instantaneous Forward Characteristics Per Diode

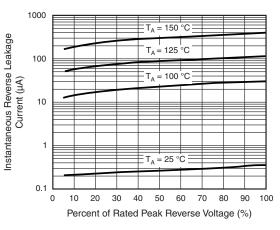


Fig. 6 - Typical Reverse Leakage Characteristics Per Diode

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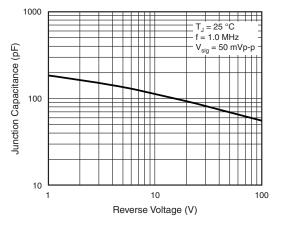


Fig. 7 - Typical Junction Capacitance Per Diode

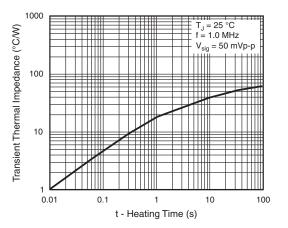
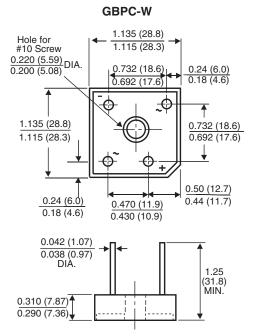
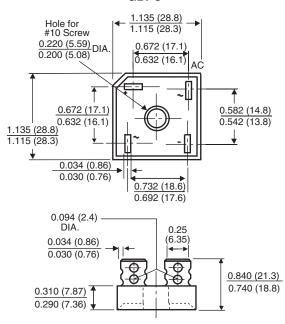


Fig. 8 - Typical Transient Thermal Impedance Per Diode







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