

Bridge Rectifiers (Glass Passivated)

Absolute Maximum Ratings*

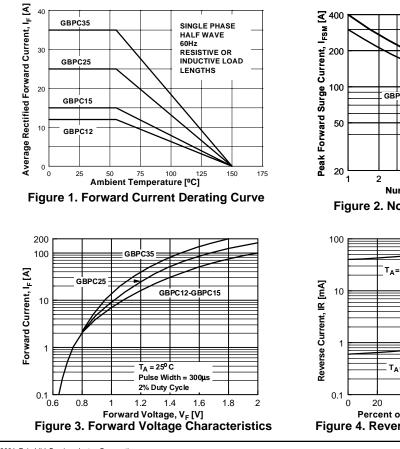
$T_A = 25^{\circ}C$ unless otherwise noted

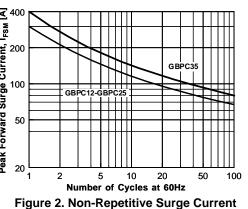
Symbol	Parameter		Value						
		005	01	02	04	06	08	10	
V _{RRM}	Maximum Repetitive Reverse Volta	ge 50	100	200	400	600	800	1000	V
V _{RMS}	Maximum RMS Bridge Input Voltag	e 35	70	140	280	420	560	700	V
V _R	DC Reverse Voltage (Rated V _R)) 50	100	200	400	600	800	1000	V
I _{F(AV)}	Average Rectified Forward Current @ T _A = 55°C GBPC12 GBPC15 GBPC25 GBPC35				12 15 25 35				A A A A
I _{FSM}	Non-repetitive Peak Forward Surge Current GBPC12, 15, 25 8.3 ms Single Half-Sine-Wave GBPC35		300 400						
T _{stg}	Storage Temperature Range		-55 to +150						
TJ	Operating Junction Temperature		-55 to +150						

*These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

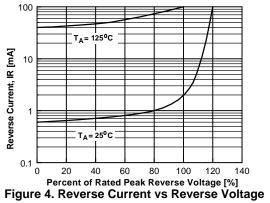
Symbol	Parameter	Value	Units	
P _D	Power Dissipation	83.3	W	
$R_{ ext{ ext{ ext{ ext{ ext{ ext{ ext{ ext$	Thermal Resistance, Junction to Lead	°C/W		
Symbol	Characteristics T _A = 25°C unless Parameter Parameter	Device	Units	
V _F	Forward Voltage Drop, per bridge @ 6.0 A GBPC12 @ 7.5 A GBPC15 @ 12.5 A GBPC25 @ 17.5 A GBPC35	1.1	V	
I _R	Reverse Current, per leg @ rated V_R $T_A = 25^{\circ}C$ $T_A = 125^{\circ}C$	5.0 500	μA μA	
	I ² t rating for fusing t < 8.3 ms GBPC12, 15, 25 GBPC35	375 660	A ² Sec A ² Sec	
CT	Total Capacitance, per leg V _R = 4.0 V, GBPC12, 15, 25 f = 1.0 MHz GBPC35	180 200	pF pF	

Typical Characteristics





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GBPC 12, 15, 25, 35 SERIES , Rev. C

GBPC 12, 15, 25, 35 SERIES

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