

12, 15, 25, 35 Ampere Glass Passivated Bridge Rectifiers

Symbol	Parameter	Value	Units	
lo	Averag e Rectified Curr ent GBPC12	12	А	
	$@T_A = 55^{\circ}C$ GBPCI5	15	А	
	GBP025	25	А	
	GBPC35	35	A	
f(surge)	Peak F or ward Surge C urrent			
(8.3 m s single half- sine- wave GBPC12, 15, 25	300	А	
	Superimposed on rate d load (JEDEC method GBPC35	400	А	
PD	Total D evice Dissipati on	83.3	W	
	Derate above 25C	666	mW/°C	
$R_{\theta JL}$	Ther mal Resistance, J unction to Lead	1.5	°C/W	
Tstg	Storag e Temperature Range	-55 to +150	°C	
TJ	Operati ng Junction Temperature	-55 to +1	50 °C	

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

Absolute Maximum Ratings*

Glass Passivated Bridge Rectifiers

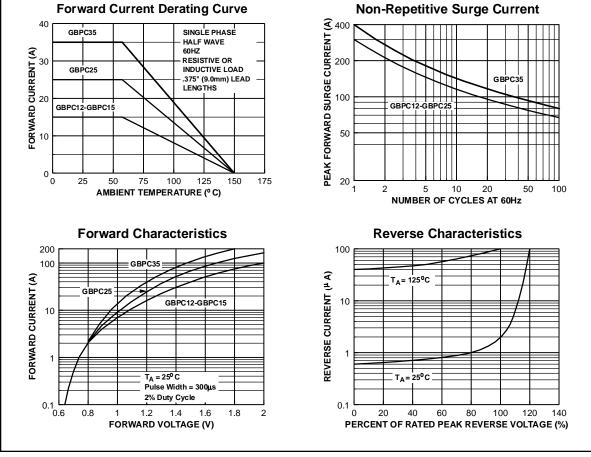
(continued)

Electrical Characteristics T_A = 25°C unless otherwise noted

Parameter	Device						Units	
	005	01	02	04	06	08	10	
Peak Repetitive Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	35	70	140	280	420	560	700	V
DC Reverse Voltage (Rated V _R)	50	100	200	400	600	800	1000	V
Maximum Reverse Leakage, total bridge @ rated $V_R T_A = 25^{\circ}C$ $T_A = 125^{\circ}C$				5.0 500				μΑ μΑ
Maximum 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 ² t rating for fusing GBPC12,15,25 t < 8.3 ms	375 660							A ² Sec A ² Sec
$\label{eq:VR} \begin{array}{l} \mbox{Typical Junction Capacitance, per leg} \\ V_R = 4.0V, & \mbox{GBPC12,15,25} \\ f = 1.0 \mbox{ MHz} & \mbox{GBPC35} \end{array}$	180 200						pF pF	

GBPC 12, 15, 25, 35 SERIES

Typical Characteristics



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

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