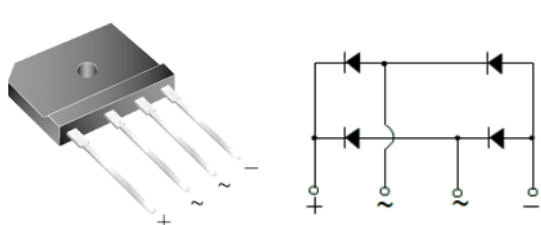


GBJ		Features				
		<ul style="list-style-type: none"> • ROHS compliant • Glass passivated chip • High forward surge capability • Meet MSL level 1, per J-STD-020 LF maximum peak of 250 °C • Solder dip 260 °C / 40S • Component in accordance to ROHS 2002/95/EC and WEEE 2002/96/WC • UL recognition, file number E342874 				
						Applications
Primary characteristics		Ideal for ac-to-dc bridge full wave rectification such as SMPS, home appliances, office equipment, industrial automation applications				
$I_{F(AV)}$	20A					
V_{RRM}	200V to 800V	Mechanical data				
I_{FSM}	240A					
I_{RM}	10uA	<ul style="list-style-type: none"> • Case: GBJ • Epoxy meets UL 94 V-0 flammability rating • Terminals: Tin plated leads. • Polarity: As marked. • Mounting Torque: 10cm·kg(8.8 inches·lbs)max. • Recommended Torque: 5.7 cm·kg(5 inches·lbs) 				
V_{FM} at $I_F=10A$	1V					
T_J max.	150 °C					
Maximum rating (Ta=25°C unless otherwise noted)						
Parameter	Sym	GBJ				Unit
		2002	2004	2006	2008	
Max. repetitive peak reverse voltage	V_{RRM}	200	400	600	800	V
Max. RMS reverse voltage	V_{RMS}	140	280	420	560	V
Max. DC blocking voltage	V_{DC}	200	400	600	800	V
Max. average forward current	$I_{F(AV)}$	20A				A
Non-repetitive peak forward surge current 8.3ms single half-sine-wave	I_{FSM}	240				A
Rating for fusing, $1ms \leq t \leq 8.3ms$	I^2t	240				A ² S
Max. instantaneous forward voltage drop per diode	V_{FM}	1(10A)				V
Max. instantaneous reverse current at rated DC blocking voltage	I_{RM}	Ta=25 °C	5			μA
		Ta=125 °C	250			μA
Operating junction temperature	T_J	-55 ~ +150				°C
Storage temperature	T_{STG}	-55 ~ +150				°C
Thermal resistance junction to ambient (Note2)	R_{J-A}	23				°C/W
Thermal resistance junction to cover (Note1)	R_{J-C}	1.5				°C/W

Notes
 (1) Unit case mounted on aluminum plate heatsink
 (2) Units mounted on PCB without heatsink



Ordering information (Example)

PREFERRED	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE
GBJ2006	7.0	45	20	Tube

Typical characteristics

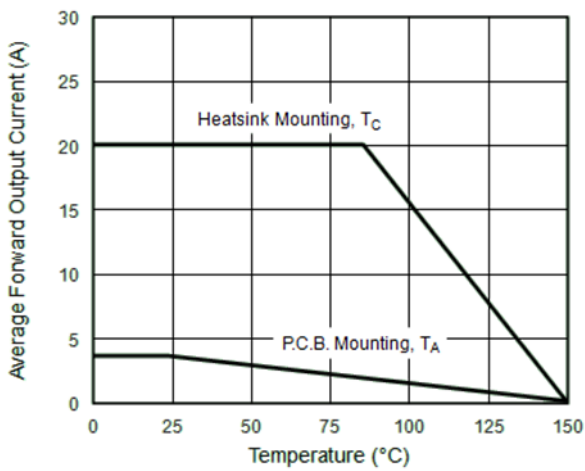
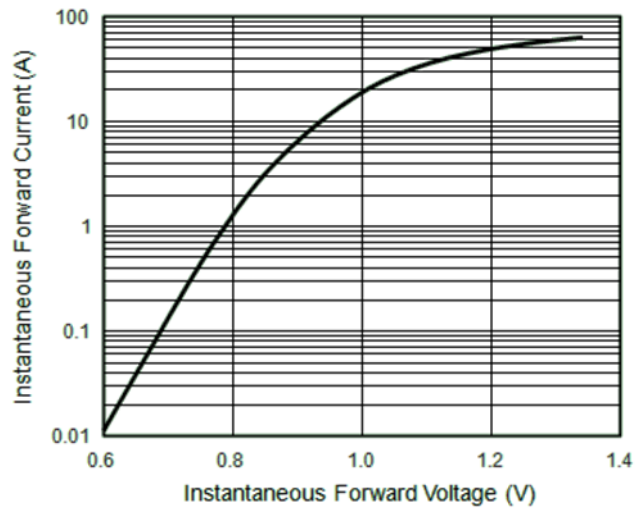
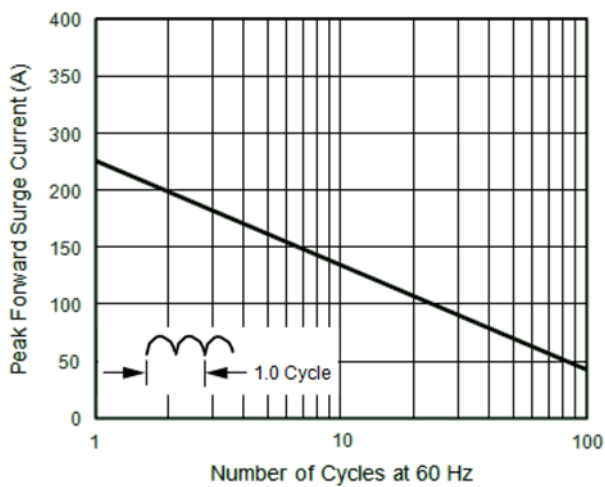


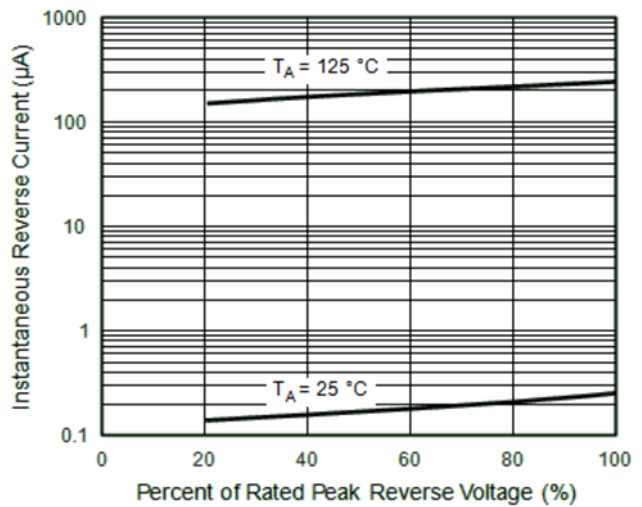
Fig. 1 - Derating Curve Output Rectified Current



Typical Forward Characteristics Per Diode

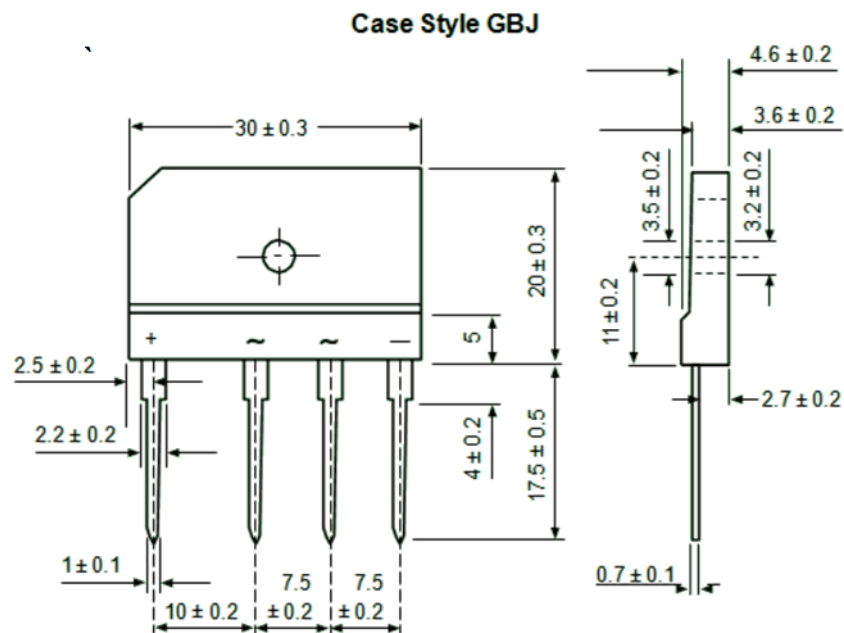


Maximum Non-Repetitive Peak Forward Surge Current Per Diode



Typical Reverse Characteristics Per Diode

Package outline dimensions



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