

GBU1002 thru GBU1010

Glass Passivated Single Phase Bridge Rectifiers

Reverse Voltage200 to 1000VForward Current10 Amp

Features

- · Glass passivated die construction
- · Ideal for printed circuit boards
- Plastic material used carries UL flammability recognition 94V-0
- · High surge current capability
- High temperature soldering guaranteed: 265°C /10 seconds, 0.375" (9.5mm) lead length, 5lbs. (2.3kg) tension

Mechanical Data

Case: Molded plastic case Terminals: Plated leads solderable per MIL-STD-750, Method 2026 Polarity: Marked on Body Mounting Position: Any

Module Type

TYPE	VRRM	Vrsm		
GBU1002	200V	300V		
GBU1004	400V	500V		
GBU1006	600V	700V		
GBU1008	800V	900V		
GBU1010	1000V	1100V		

Maximum Ratings and Thermal Characteristics (TA = 25°C unless otherwise noted)

Symbol	Conditions	Values	Units
lf(AV)	Maximum average forward output rectified current $Tc = 100^{\circ}C$	10 ⁽¹⁾	А
IFSM	Peak forward surge current single half sine-wave superimposed on rated load (JEDEC Method)	200	А
i ² t	Rating for fusing (t<8.3ms)	166	A ² s
Visol	a.c.50HZ;r.m.s.;1min	2500	V
Reja Rejc	Maximum thermal resistance per leg	22 ⁽²⁾ 4.2 ⁽³⁾	°C /W
Tj, Tstg	Operating Junction and storage temperature range	-55 to +150	°C
Weight	Approximate Weight	4.0	g

Electrical Characteristics (TA = 25°C unless otherwise noted)

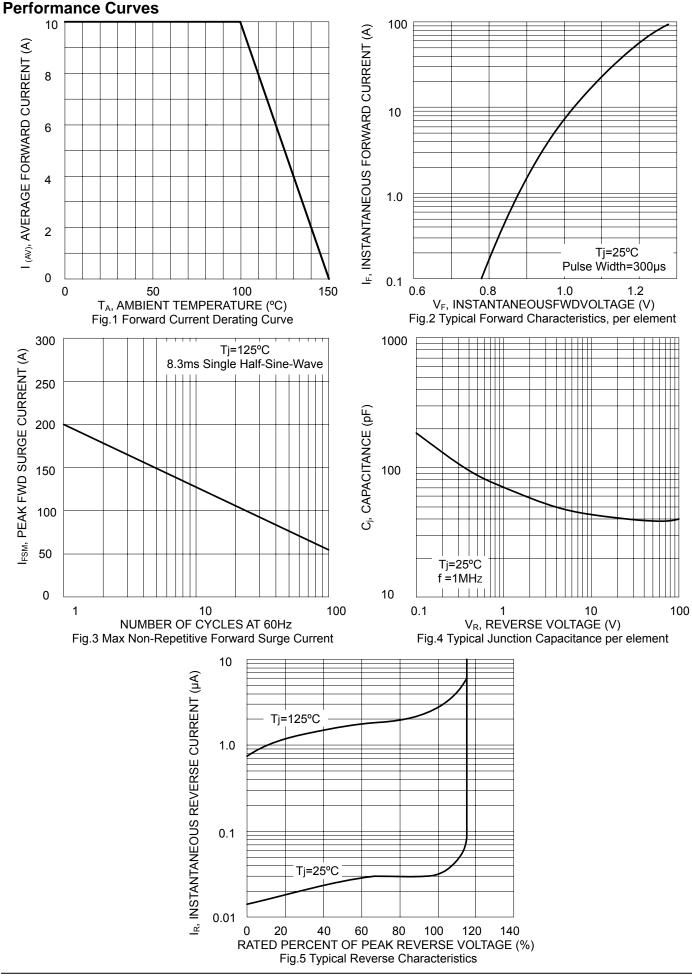
Symbol	Conditions		Values	Units
VF	Maximum Instantaneous Forward Voltage per leg	IFM =10A	1.05	V
IR	Maximum DC reverse current at rated DC blocking voltage per leg	Ta = 25℃ Ta = 125℃	5.0 500	μA

Notes: (1) Heat sink, Tc mouting-4x4x0.15cm thick copper plate

- (2) Junction to ambient without heatsink
- (3) Junction to case with heatsink
- (4) Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with #6 screw



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Package Outline Information

