

GBU20005 THRU GBU2010

SINGLE PHASE 20 AMP BRIDGE RECTIFIERS

I_o

Features

- I_o 20A
- V_{RRM} 50V~1000V
- Glass passivated chip
- High surge forward current capability

Applications

- General purpose 1 phase Bridge rectifier applications
- Lead Free Finish/RoHS Compliant

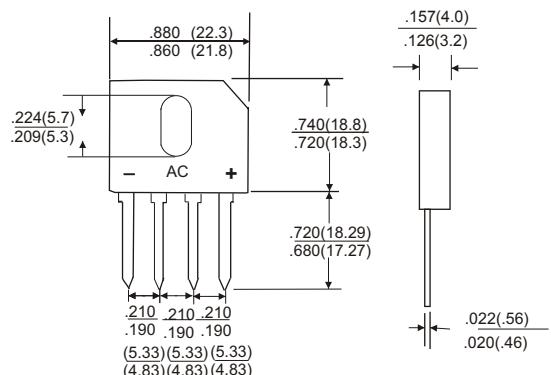
VOLTAGE RANGE

50 to 1000 Volts

CURRENT

20.0 Ampere

GBU



Dimensions in inches and (millimeters)

Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	GBU20						
				005	01	02	04	06	08	10
Repetitive Peak Reverse Voltage	V _{RRM}	V		50	100	200	400	600	800	1000
Average Rectified Output Current	I _o	A	60Hz sine wave, R-load	With heatsink T _c =87°C		20				
Surge(Non-repetitive)Forward Current	I _{FSM}	A	60Hz sine wave, 1 cycle, T _j =25°C	Without heatsink T _a =25°C					3.5	
									240	
Current Squared Time	I ² t	A ² S	1ms≤t<8.3ms T _j =25°C, Rating of per diode						240	
Storage Temperature	T _{stg}	°C							-55 ~+150	
Junction Temperature	T _j	°C							-55 ~+150	
Dielectric Strength	V _{dis}	KV	Terminals to case, AC 1 minute						2.5	
Mounting Torque	Tor	kg • cm	Recommend torque: 5kg • cm						8	

Electrical Characteristics (T_a=25°C Unless otherwise specified)

Item	Symbol	Unit	Test Condition	Max
Peak Forward Voltage	V _{FM}	V	I _{FM} =10A, Pulse measurement, Rating of per diode	1.1
Peak Reverse Current	I _{RRM}	μ A	V _{RM} =V _{RRM} , Pulse measurement, Rating of per diode	10
Thermal Resistance	R _{θ J-A}	°C/W	Between junction and ambient, Without heatsink	22
	R _{θ J-C}		Between junction and case, With heatsink	1.5

Characteristics(Typical) GBU20005 THRU GBU2010

