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Glass Passivated Bridge Rectifier

Voltage

1000 V

Current

35A

HF

Features

- Glass passivated chip junction
- UL recognition file number E526209
- Lead free in compliance with EU RoHS 2.0
- Halogen-free according to IEC 61249 standard

Mechanical Data

• Case : GBU-2 Package

• Terminals : Solderable per MIL-STD-750, Method 2026

• Approx. Weight: 0.1353 ounces, 3.8348 grams

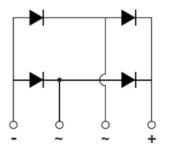
Application

- Computing Power / Desktop Power
- Game Console Power
- Server Power
- Air Conditioner out door power board
- High Power/High Efficiency Power
- Home Appliances Power Board

Key Parameters			
Parameter	Value		
V_{RRM}	1000V		
I _F (AV)	35A		
I _{FSM}	400A		
I _R	5uA		
Package	GBU-2		

GBU-2







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

PARAMETER	SYMBOL	LIMIT	UNITS		
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	1000	V	
Maximum RMS Voltage	V _{RMS}	700	V		
Maximum DC Blocking Voltage		V _{DC}	1000	V	
Maximum Average Forward Current	With heatsink		35	А	
	Without heatsink	I _{F(AV)}	3.9		
Peak Forward Surge Current: 8.3 ms	@ T _A = 25 °C		400		
Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 125 °C	I _{FSM}	320	A	
Peak Forward Surge Current: 1.0 ms	@ T _A = 25 °C		800	А	
Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 125 °C	IFSM	640		
I^2 t rating for fusing (t = 8.3ms)	I²t	664	A ² S		
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4$	CJ	155	pF		
	ReJA	6			
Typical Thermal Resistance (Note 1	ReJL	2	°C/W		
		R ₀ JC	2		
Operating junction and storage tempera	T _J , T _{STG}	-55~150	°C		
Mounting torque @ Recommend torque	Tor	8	Kg.cm		

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

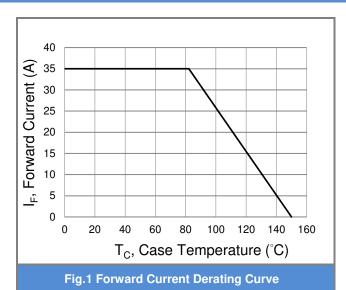
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V _F	I _F = 17.5 A, T _J = 25 °C	ı	ı	1.1	٧
Reverse Current	I _R	V _R = 1000 V, T _J = 25 °C	-	-	5	
		V _R = 1000 V,T _J = 125 °C	-	-	100	uA

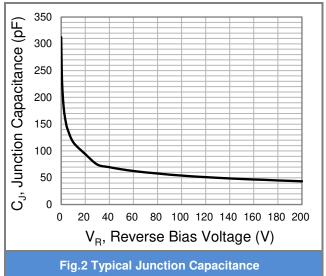
NOTES:

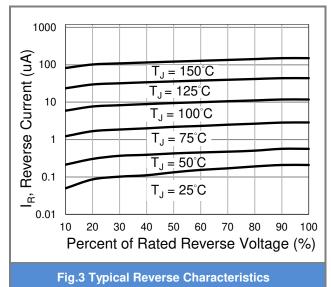
1. Device mounted on 10 cm * 9.4 cm * 2.6 cm Fin type heat sink

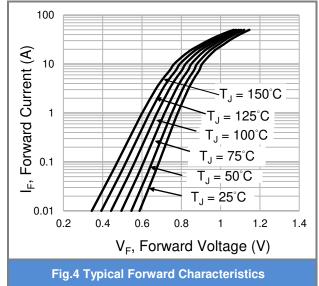


TYPICAL CHARACTERISTIC CURVES







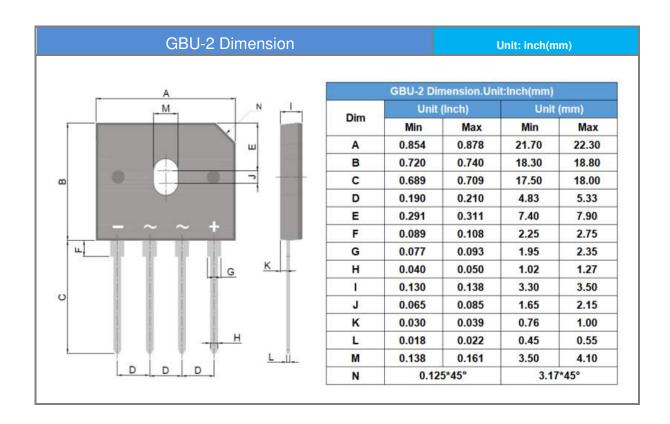




Part No. Marking Code Version

Approved Part No.	Package Type	Packing Type	Marking
GBU3510	GBU-2	20 pcs / tube	GBU3510

Packaging Information





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