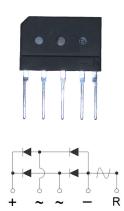


Glass Passivated Bridge Rectifiers

GBJ2008R10



Features

- · Compliant with RoHS Provisions
- Low forward voltage, high forward current
- · High forward surge current capability
- High heat-conducting performance
- Thermal welding performance:260 °C/10sec

Applications

- Switching Power Supply
- · Home Appliances, Office Devices
- Industrial Auto-equipments

Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter		Symbols	GBJ2008R10	Units	
Maximum Repetitive Peak Reve	erse Voltage	VRRM	800	V	
Average Rectified Output Curre	nt	lo	20 ^① 4.2 ^②	A	
Peak Forward Surge Current 8 Sine Wave Superimposed (JEDEC Method)	.3 ms Single Half on Rated Load	IFSM	300	А	
I ² t Rating for Fusing (1ms< t	< 8.3ms)	I²t	373	A ² S	
Forward Voltage per Diode,IF = 10A		VF	1.05	V	
Maximum DC Reverse Current	TA=25 °C	IR	10	- μΑ	
	TA=125 °C	IK.	500		
Temperature Coefficient of Sam	pling Resistance	TCR	±40	ppm/°C	
Operating and Storage Temperature Range		Tj, Tstg	-55 ~ +150	°C	
Junction-to-case Thermal Resistance [®]		R _{eJC}	1.5	°C/W	
Sampling Resistance (Negative "-" to Sampling "R")	standard values	-	10	mΩ	
	error values	R _S	±5%	%	

Note: ①The product is installed on the PCB board with the specified size of the heat sink

- 2) The product is mounted directly on the PCB board without heat sink
- 3)The recommended size of the heat sink is 12.4 x 15.2 x 7.6cm aluminum heat sink



RATINGS AND CHARACTERISTICS CURVES (TA = 25 °C unless otherwise noted)

Fig.1 Current Derating, Case

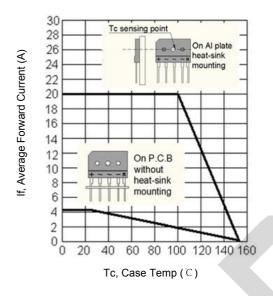


Fig.3 Typical Forward Voltage

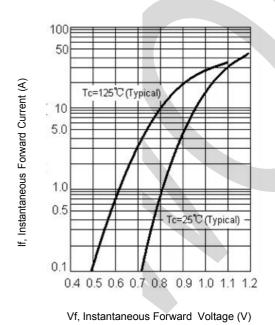


Fig.2 Maximum Non-Repetitive Peak Forward Surage Current

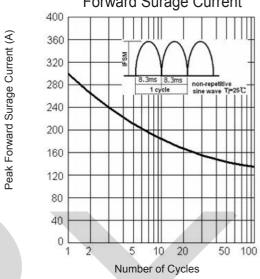
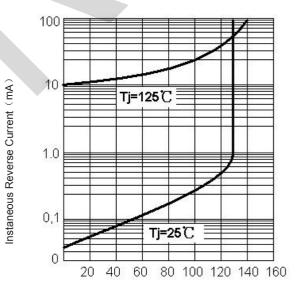


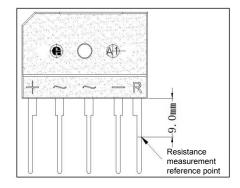
Fig.4 Typical Reverse Characteristics



percent of Rated Peak Reverse Voltage (%)

18-Mar-2021

RESIETANCE MEASUREMENT DESCRIPTION



Illustrate:

- 1. The product resistance value measurement reference point is 9mm away from the product body;
- 2. The resistance of a single pin of the product is $0.025m\Omega/mm$; (reference value)

Translation:

After the adjustment bridge product is installed on the PCB, the actual installation point of the adjustment bridge

The product body is 12mm, and the nominal resistance of the product is calculated as follows: The distance from the reference point for measuring resistance value is: 12-9=3mm

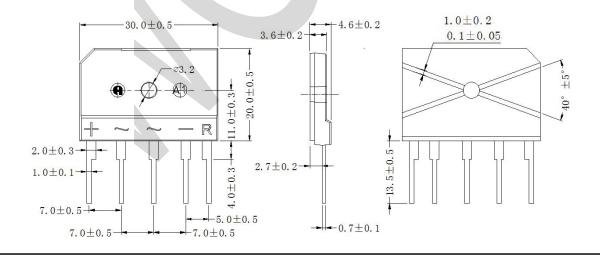
The added resistance of a single pin is: 3*0.025=0.075m Ω

The overall resistance increases to: $0.075*2=0.15m\Omega$ (because it is the bottom pin) The final overall nominal resistance is: $20+0.15=20.15m\Omega$

PRECAUTIONS FOR USE

*In order to ensure the accuracy of the sampling resistance value, it is forbidden to heat the product pin at 260 °C for more than 10 seconds (wave soldering), and it is forbidden to heat the product pin at 400 °C for more than 3 seconds (manual welding).

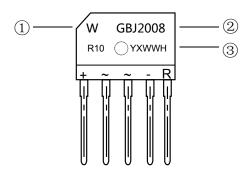
PACKAGE OUTLINE DIMENSIONS Note:unit In(mm)



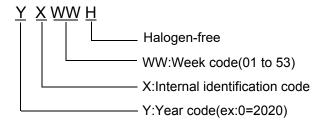
GBJ1508R10

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Marking Information

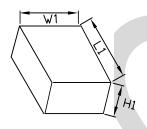


- ①W : Company's trademark ②Product model : GBJ2008R10
- ③PDC information:

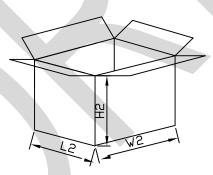


Packaging Information

1.Inside Box



2. Outside Box



Packaging Information

NO	UNIT	Inside Box			Outside Box			
		L1	W1	H1	L2	W2	H2	
Size	mm	301	134	46	325	290	212	
QTY	PCS	250PCS/carton			5,000PCS/carton,20boxes in total			
Note Tolerance ≤20mm,±3mm; 21-100mm,±5mm; 101-500mm,±10mm								