

# **Glass Passivated 3 Phase Bridge Rectifiers**

# Reverse Voltage - 800 to 1600Volts Forward Current - 25 Amperes

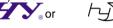
### **Features**

- Low forward voltage drop
- High current capability
- High reliability
- •Meet UL flammability classification 94V-0

### Mechanical Data

- Case: Epoxy case with heat sink
- Polarity: Symbol marked on body
- Mounting position:
- Maximum Mounting torque (M4)<sup>1</sup>: 0.8 N.m

Note: Products with logo

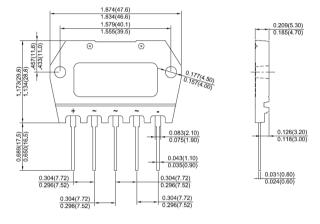


are made by HY Electronic (Cayman) Limited.

## **Applications**

 For use in high power supply inverters, servo motor and welding machine applications

# HGBJ ROHS COMPLIANT



Package Outline Dimensions in Inches (Millimeters)

# **Maximum Ratings and Electrical Characteristics**

Rating at 25℃ ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

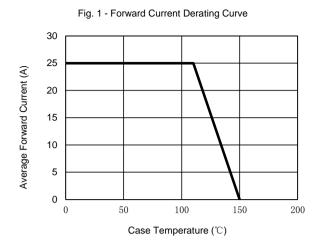
For capacitive load, derate current by 20%.

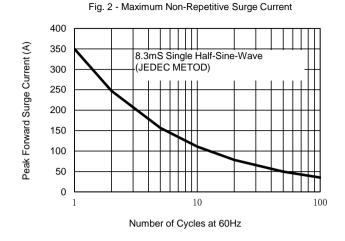
Characteristics	Symbol	HGBJ25	HGBJ25	HGBJ25	HGBJ25	Unit
	Symbol	-08	-10	-12	-16	
Maximum Repetitive Peak Reverse Voltage	Vrrm	800	1000	1200	1600	V
Maximum RMS Voltage	VRMS	560	700	840	1120	V
Maximum DC Blocking Voltage	VDC	800	1000	1200	1600	V
Peak Non-Repetitive Reverse Voltage	VRSM	900	1100	1300	1700	V
Maximum Average Forward Rectified Current @Tc=110 ℃	I(AV)	25				Α
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,	IFSM	350				А
Superimposed on Rated Load (JEDEC Method)	IFSM					
I <sup>2</sup> t Rating for Fusing (t<8.3mS) 3mS)	l <sup>2</sup> t	508				A <sup>2</sup> S
Peak Forward Voltage per Diode at 12.5A DC	VF	1.1				V
Maximum DC Reverse Current at Rated @TJ=25℃	1 <sub>R</sub> 5				μA	
DC Blocking Voltage per Diode @Tյ=125℃	IR	3				mA
Typical Thermal Resistance to Case	Rejc	0.8				°C/W
RMS Isolation Voltage from Case to Lead	Viso	2500				V
Operating Junction Temperature Range	TJ	-55 to +150				$^{\circ}$
Storage Temperature Range	Тѕтс	-55 to +150				$^{\circ}$

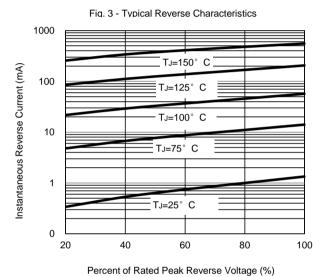
Notes: 1. Surface roughness of Heat sink < 0.05mm

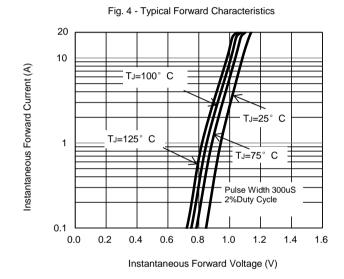
2. The typical data above is for reference only











The curve above is for reference only.



### **Disclaimer**

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