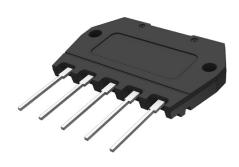
Glass Passivated 3 Phase Bridge Rectifier





Features

- · Glass passivated chip, high reliability
- Low forward voltage drop
- Insulation voltage 2,500V
- Small size and light weight
- · Small thermal resistance, high thermal conductivity and low temperature rise

Applications

- · Power supply of DC equipment
- · Input rectifier for PWM converter
- DC motor

Maximum Ratings And Electrical Characteristics

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

Characteristic	Symbol	HGBJ5008	HGBJ5010	HGBJ5012	HGBJ5016	Unit	
Voltage Ratings							
Peak Repetitive Voltage	Vrrm	800	1,000	1,200	1,600	V	
Peak Non-Repetitive Reverse Voltage	VRSM	900	1,100	1,300	1,700		
Forward Conduction							
Maximum Average Forward Rectified Current @Tc = 110°C	lF(AV)	50				A	
Peak Forward Surge Current t=8.3ms at 60Hz	IFSM	450					
I ² t Rating for Fusing	l ² t	840				A ² s	
Maximum Forward Voltage drop per element at 17.5A Peak	VF	1.1			V		
Reverse peak current VR = VRRM @ TJ = 25°C VR = VRRM @ TJ = 150°C	lR	5 3			μA mA		
RMS Isolation Voltage from Case to Lead	Viso	2,500				V	
Typical Thermal Resistance (Note1)	Rejc	0.8				°C/W	
Mounting torque M3	M _d	0.8			N.m		
Weight	W _t	10			g		
Thermal Characteristics							
Operating Temperature Range	TJ	FF to 14F0			°C		
Storage Temperature Range	Тѕтс		-55 to +150				

Notes: 1. Thermal resistance junction to case.

2. The typical data above is for reference only

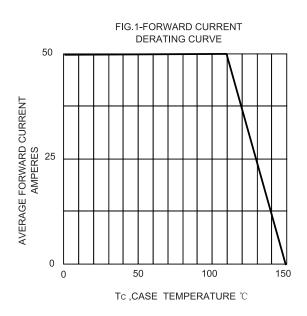
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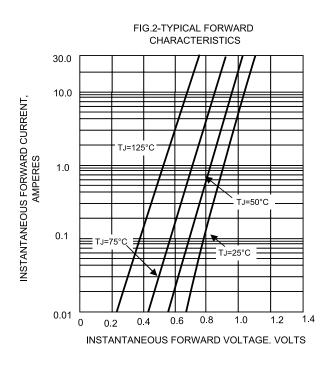


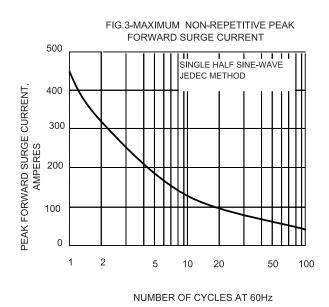
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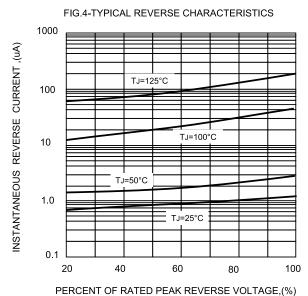


Rating and Characteristic Curves









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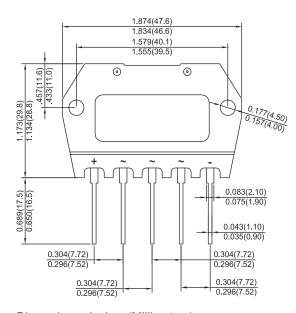


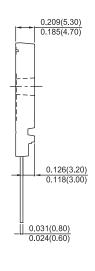
Glass Passivated 3 Phase Bridge Rectifier

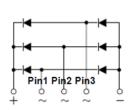


Dimension:









Dimensions: Inches (Millimetres)

Part Number Table

Description	Part Number	
	HGBJ5008	
Class Descripted 2 Dhase Bridge Destifier	HGBJ5010	
Glass Passivated 3 Phase Bridge Rectifier	HGBJ5012	
	HGBJ5016	

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