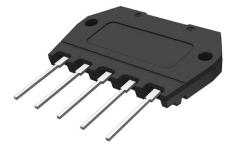
multicomp



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	IF(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	IR	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	-55 to +150			°C	
Storage Temperature Range	Tstg]	-55 (0 + 150			

Notes: 1. Thermal resistance junction to case.

2. The typical data above is for reference only

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Rating and Characteristic Curves

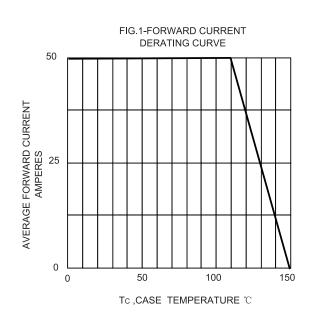


FIG.3-MAXIMUM NON-REPETITIVE PEAK

SINGLE HALF SINE-WAVE JEDEC METHOD

20

10

NUMBER OF CYCLES AT 60Hz

1 1 1

50

100

FORWARD SURGE CURRENT

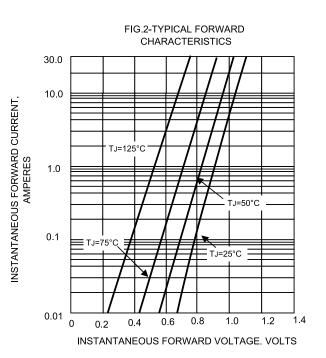
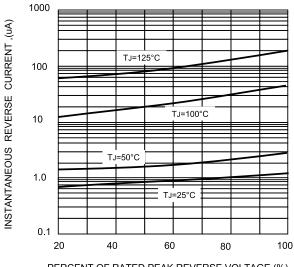


FIG.4-TYPICAL REVERSE CHARACTERISTICS



PERCENT OF RATED PEAK REVERSE VOLTAGE,(%)

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500

400

300

100

0

1

2

5

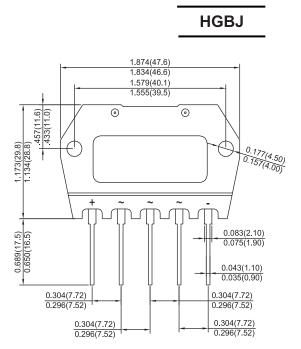
PEAK FORWARD SURGE CURRENT,

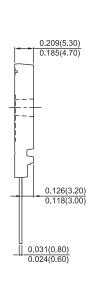
AMPERES 500

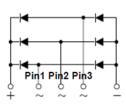




Dimension:







Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number	
Class Dessivated 2 Desse Dridge Destifier	HGBJ5008	
	HGBJ5010	
Glass Passivated 3 Phase Bridge Rectifier	HGBJ5012	
	HGBJ5016	

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