

4GBJ20005 THRU 4GBJ2010

Glass Passivated Bridge Rectifiers			Reverse Voltage - 50 to 1000 Volts Forward Current - 20 Amperes						
		FOrw	ard C	Jurrei	it - 2	U AM	peres		
Features • Glass passivated chip • Low forward voltage drop • Ideal for printed circuit board • High surge current capability •Meet UL flammability classification 94V-0		4GE	3J	.995 (25	.3)	•	-	C	RoHS OMPLIANT
 Mechanical Data Polarity: Symbol marked on body Mounting position: Any Note: Products with logo or how or how or are made by HY Electronic (Cayman) Limited. Applications General purpose use in AC/DC bridge full wave rectification, for SMPS, lighting ballaster, adapter, etc. 			1.45) 1.05) (2.1) (1.7) 3 (1.1) 5 (0.9) .303			150 (38) 157 157 (130) (130) (130) (130) (130) (151) (130) (130) (130) (130) (152) (130) (170) (170) (170)	382 (9.7)	150 (3.8) 134 (3.4) 150 (2.5) 150 (2.5) 150 (2.5) 150 (2.5) 150 (2.5) 150 (2.5) 150 (2.5) 150 (2.5) 150 (2.5) 098 (2.5)))))
		Package Outline Dimensions in Inches (Millimet							ers)
Maximum Ratings and Electrical Characteristics									
Rating at 25 $^\circ C$ ambient temperature unless otherwise specified.									
Single phase, half wave, 60Hz, resistive or inductive load.									
For capacitive load, derate current by 20%.									
Characteristics	Symbol	4GBJ 20005	4GBJ 2001	4GBJ 2002	4GBJ 2004	4GBJ 2006	4GBJ 2008	4GBJ 2010	Unit
Maximum Repetitive Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	Vdc	50	100	200	400	600	800	1000	V
Maximum Average Forward (with heatsink Note 2)	Icon			20.0					
Rectified Current @ Tc=100°C (without heatsink)	I(AV)	4.1						A	
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,	IFSM	260							А
Superimposed on Rated Load (JEDEC Method)	IFSM							~	
I ² t Rating for Fusing (t<8.3mS)	l ² t	280.5							A ² s
Peak Forward Voltage per Diode at10A DC	Vf	1.0							V
Maximum DC Reverse Current at Rated @Tj=25°C	lr	5.0 500							μA
DC Blocking Voltage per Diode $@T_{J}=125^{\circ}C$	ii.								
Typical Junction Capacitance per Diode (Note1)	CJ	60							pF
Typical Thermal Resistance to case (Note2)	Rejc	0.93							
Operating Junction Temperature Range	TJ			-{	55 to +15	50			°C

Storage Temperature Range

Notes: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

2.Device mounted on 300mm*300mm*1.6mm Cu plate heatsink.

3. The typical data above is for reference only

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 $^{\circ}\!\mathrm{C}$

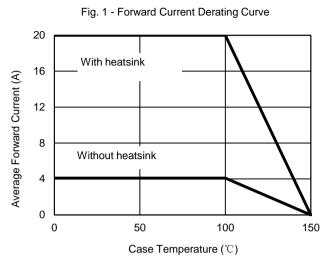
-55 to +150

Tstg

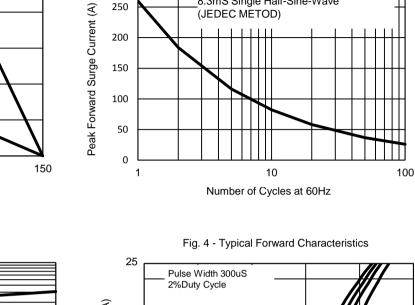
Rating and Characteristic Curves 4GBJ20005 THRU 4GBJ2010

1000









300

250

200

Fig. 2 - Maximum Non-Repetitive Surge Current

8.3mS Single Half-Sine-Wave

(JEDEC METOD)

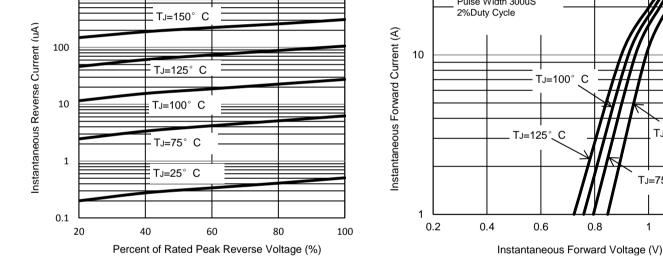
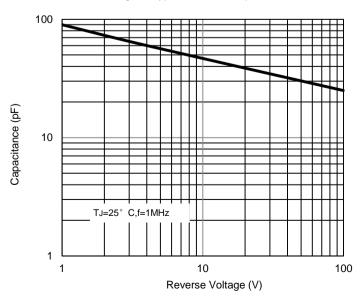


Fig. 5 - Typical Junction Capacitance



The curve above is for reference only.

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TJ=25°

1.2

TJ=75°

1

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