Glass Passivated Bridge Rectifiers



4GBJ4005-G Thru. 4GBJ410-G

Reverse Voltage: 50 to 1000V

Forward Current: 4.0A

RoHS Device



Features

- -Surge overload rating -150 amperes peak.
- -Ideal for printed circuit board.
- -UL recognized file # E217139 The state of the state of



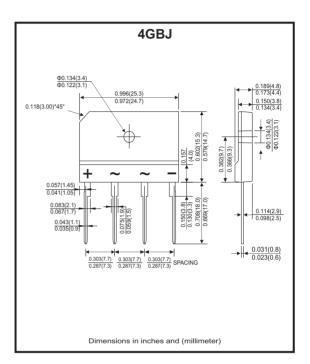
Mechanical Data

-Epoxy: U/L 94V-0 rate flame retardant.

-Case: Molded plastic, 4GBJ

-Mounting position: Any

-Weight: 4.27 gram (approx.).



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%

Parameter	Symbol	4GBJ 4005-G	4GBJ 401-G	4GBJ 402-G	4GBJ 404-G	4GBJ 406-G	4GBJ 408-G	4GBJ 410-G	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	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 Note2) Rectified Current @Tc=100°C (without hestsink)	I _(AV)	4.0 2.4				А			
Peak Forward Surage Current , 8.3ms Single Half Sine-Wave Super Imposed On Rated Load (JEDEC Method)	Ігѕм	135				А			
Maximum Forward Voltage at 2.0A DC Maximum Forward Voltage at 4.0A DC	VF	1.0 1.1				V			
Maximum DC Reverse Current @TJ=25°C At Rated DC Blocking Voltage @TJ=125°C	lR	10.0 500				μΑ			
I ² T Rating for Fusing (t<8.3ms)	l ² t	93				A ² s			
Typical Junction Capacitance Per Element (Note 1)	C₃	45				pF			
Typical Thermal Resistance	Rejc	2.2				°C/W			
Operating Temperature Range	ΤJ	-55 to +150				°C			
Storage Temperature Range	Тѕтс	-55 to +150			°C				

Notes:

- 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC. 2. Device mounted on 50mm*50mm*1.6mm Cu plate heatsink.

Company reserves the right to improve product design, functions and reliability without notice.

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Rating and Characteristics Curves (4GBJ4005-G Thru. 4GBJ410-G)

Fig.1 - Forward Current Derating Curve

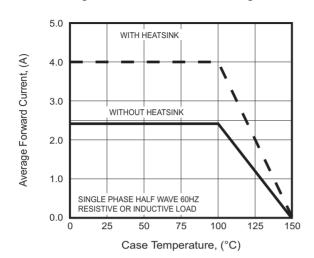


Fig.2 - Typical Forward Characteristics

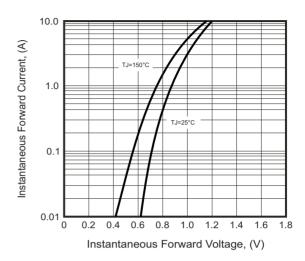


Fig.3 - Maximum Non-Repetitive Surge Current

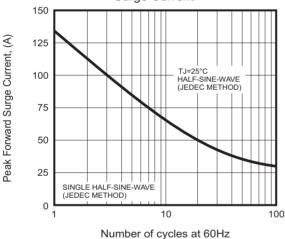


Fig.4 - Typical Junction Capacitance

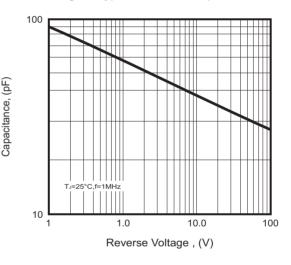
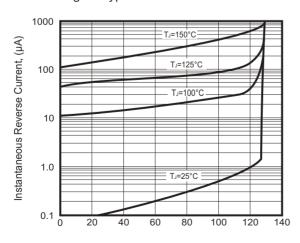


Fig.5 - Typical Reverse Characteristics



Percent of Rated Peak Reverse Voltage, (%)

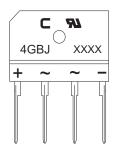
QW-BBR86

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Marking Code

Part Number	Marking code		
4GBJ4005-G	4GBJ4005		
4GBJ401-G	4GBJ401		
4GBJ402-G	4GBJ402		
4GBJ404-G	4GBJ404		
4GBJ406-G	4GBJ406		
4GBJ408-G	4GBJ408		
4GBJ410-G	4GBJ410		



XXX / XXXX = Product type marking code

■ Compchip Logo

Standard Packaging

	TUBE PACK				
Case Type	Case Type TUBE (pcs)				
4GBJ	20	1,000			