

Glass Passivated Bridge Rectifiers

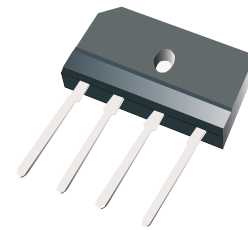


4GBJ4005-G Thru. 4GBJ410-G

Reverse Voltage: 50 to 1000V

Forward Current: 4.0A

RoHS Device

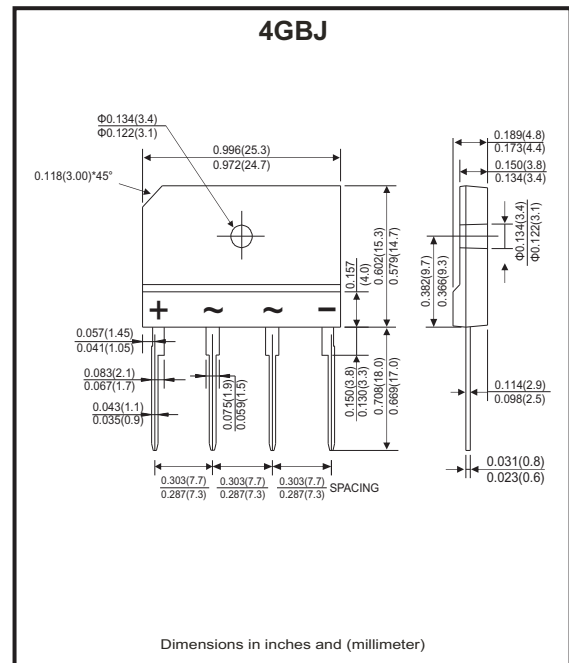


Features

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

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	V_{DC}	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				A
Peak Forward Surage Current , 8.3ms Single Half Sine-Wave Super Imposed On Rated Load (JEDEC Method)	I_{FSM}					135				A
Maximum Forward Voltage at 2.0A DC Maximum Forward Voltage at 4.0A DC	V_F					1.0				V
Maximum DC Reverse Current @Tj=25°C At Rated DC Blocking Voltage @Tj=125°C	I_R					10.0				μA
I ² T Rating for Fusing (t<8.3ms)	I ² t					93				A ² s
Typical Junction Capacitance Per Element (Note 1)	C_J					45				pF
Typical Thermal Resistance	$R_{θJC}$					2.2				°C/W
Operating Temperature Range	T_J					-55 to +150				°C
Storage Temperature Range	T_{STG}					-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.

REV: A

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

Fig.1 - Forward Current Derating Curve

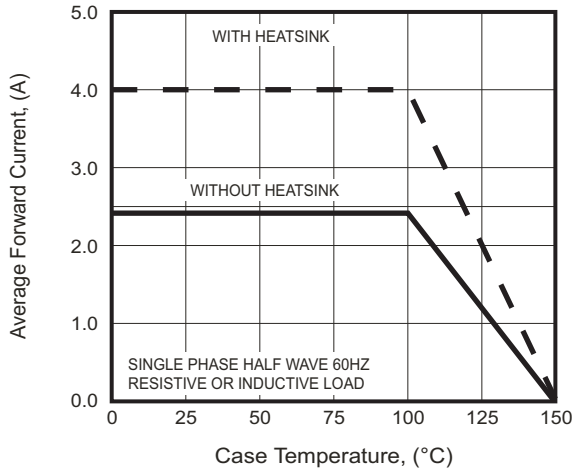


Fig.2 - Typical Forward Characteristics

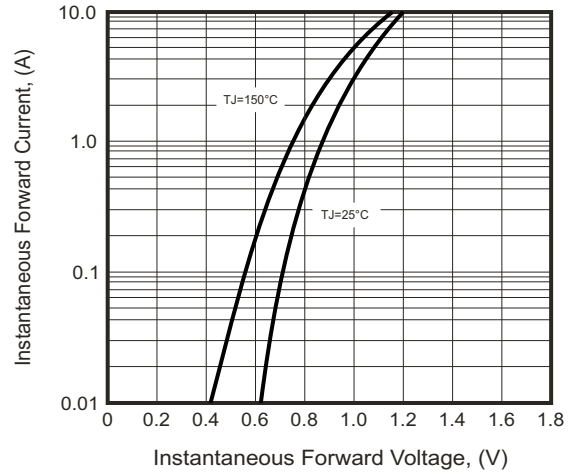


Fig.3 - Maximum Non-Repetitive Surge Current

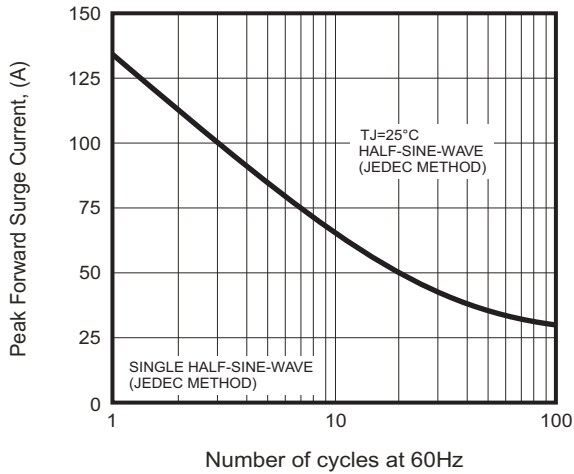


Fig.4 - Typical Junction Capacitance

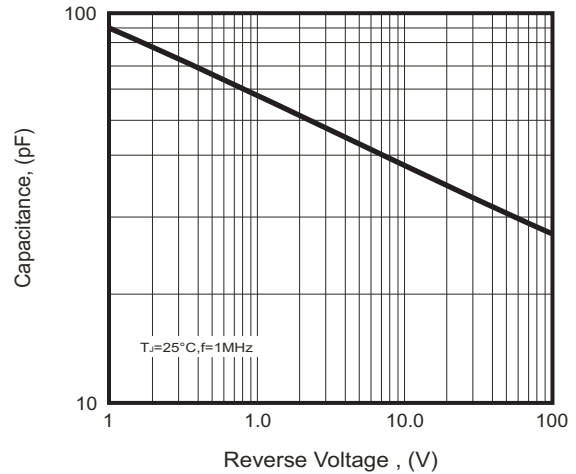
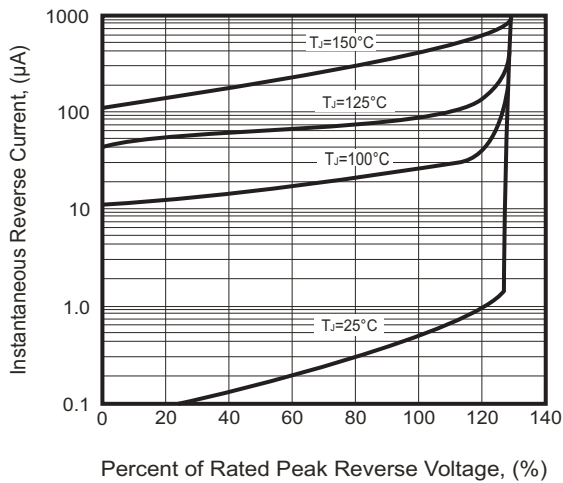


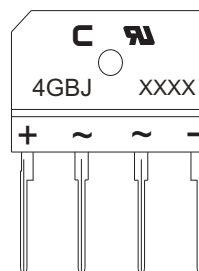
Fig.5 - Typical Reverse Characteristics



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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
C = Compchip Logo

Standard Packaging

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