

REVERSE VOLTAGE - 50 to 1000Volts
 FORWARD CURRENT - 4.0 Amperes

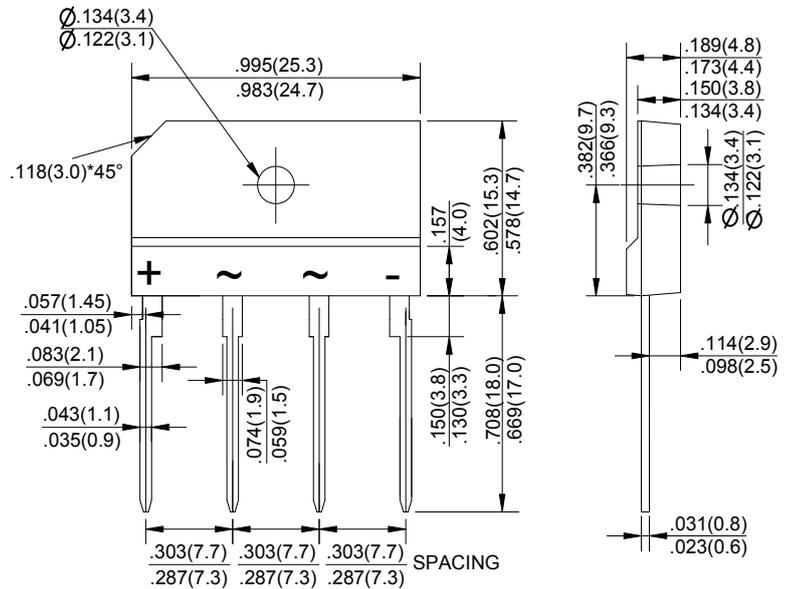
4GBJ4005 thru 4GBJ410

GLASS PASSIVATED BRIDGE RECTIFIERS

4GBJ

FEATURES

- Surge overload rating -135 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- The plastic material has UL flammability classification 94V-0
- Mounting position:Any



Dimensions in inches and (millimeters)

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%

CHARACTERISTICS	SYMBOL	4GBJ 4005	4GBJ 401	4GBJ 402	4GBJ 404	4GBJ 406	4GBJ 408	4GBJ 410	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 Note 2) Rectified Current @ $T_c=100^\circ C$ (without heatsink)	$I_{(AV)}$					4.0				A
Peak Forward Surge 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	V_F					1.0				V
Maximum Forward Voltage at 4.0A DC	V_F					1.1				V
Maximum DC Reverse Current @ $T_J=25^\circ C$ at Rated DC Blocking Voltage @ $T_J=125^\circ C$	I_R					10.0				μA
I^2t Rating for Fusing ($t<8.3ms$)	I^2t					75.63				A^2s
Typical Junction Capacitance Per Element (Note1)	C_J					45				pF
Typical Thermal Resistance	$R_{\theta JC}$					2.2				$^\circ C/W$
Operating Temperature Range	T_J					-55 to +150				$^\circ C$
Storage Temperature Range	T_{STG}					-55 to +150				$^\circ C$

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.

3.The typical data above is for reference only

RATING AND CHARACTERISTIC CURVES 4GBJ4005 thru 4GBJ410

FIG.1-FORWARD CURRENT DERATING CURVE

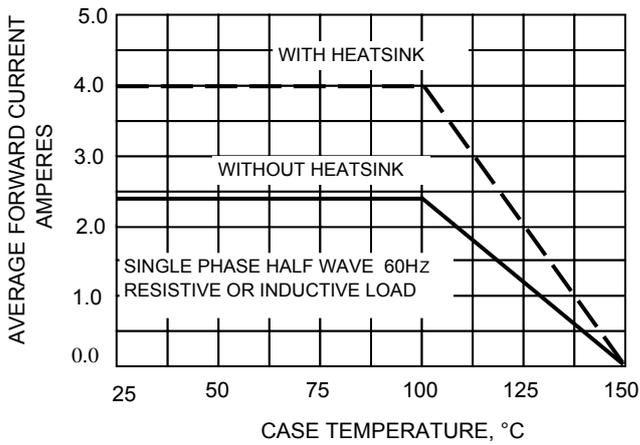


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

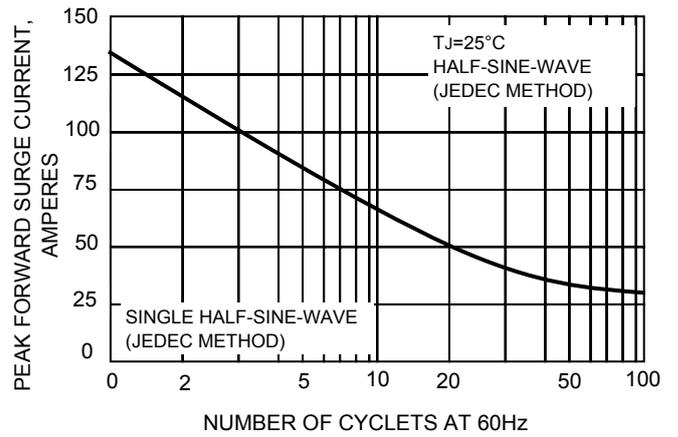


FIG.3-TYPICAL FORWARD CHARACTERISTICS

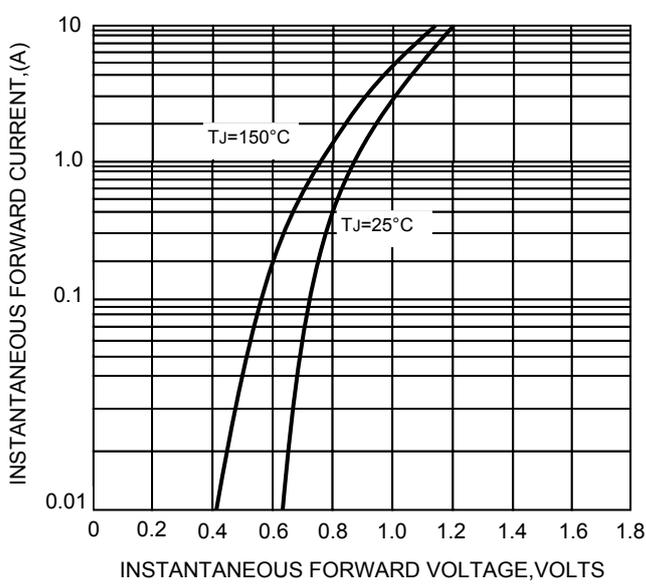


FIG.4-TYPICAL REVERSE CHARACTERISTICS

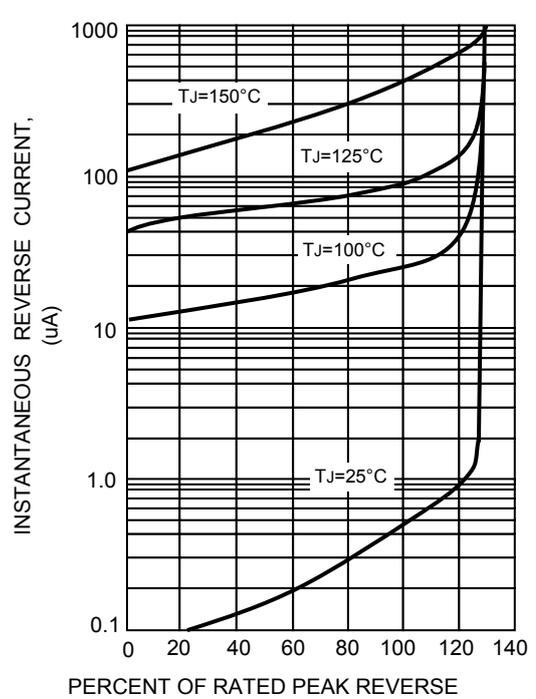


FIG.5-TYPICAL JUNCTION CAPACITANCE

