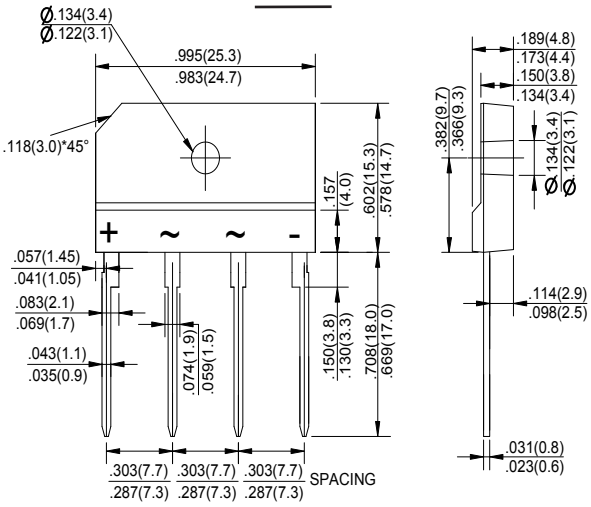
4GBJ4005 THRU 4GBJ410

GLASS PASSIVATED BRIDGE RECTIFIERS

Reverse Voltage - 50 to 1000 Volts Forward Current - 4.0 Amperes

4GBJ



Dimensions in inches and (milimeters)

FEATURES

- Surge overload rating -135 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Plastic material has U/L lammability classification 94V-0
- Mounting postition:Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.
Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

MDD Catalog Number	SYMBOLS	4GBJ 4005	4GBJ 401	4GBJ 402	4GBJ 404	4GBJ 406	4GBJ 408	4GBJ 410	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	VOLTS
Maximum average forward(with heatsink NOTE 2) Rectified current @T_C=100℃(without heatsink)	$I_{(AV)}$	4.0 2.4							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	135.0							Amps
Rating for Fusing(t<8.3ms)	I^2t	75.63							A^2s
Maximum forward voltage at 2.0A DC	V_F	1.0							Volts
Maximum forward voltage at 4.0A DC	V_F	1.1							Volts
Maximum DC reverse current T_A=25℃	I_R	10							μA
at rated DC blocking voltage T_A=125℃		500							μA
Typical Junction Capacitance (Note 1)	C_J	45							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	2.2							°C/W
Operating junction 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 75mm*75mm*1.6mm cu plate heatsink.
3.The typical data above is for reference only( ).

RATINGS AND CHARACTERISTIC CURVES 4GBJ4005 THRU 4GBJ410

FIG.1-FORWARD CURRENT DERATING CURVE

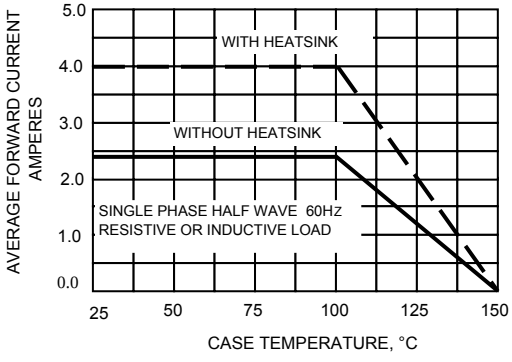


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

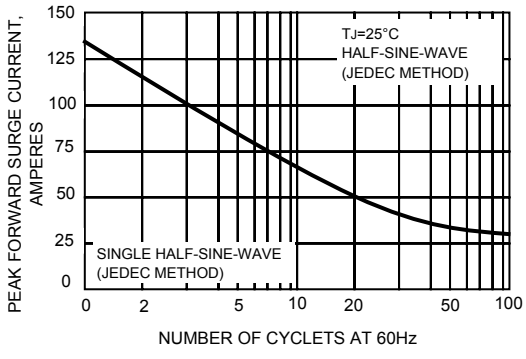


FIG.3-TYPICAL FORWARD CHARACTERISTICS

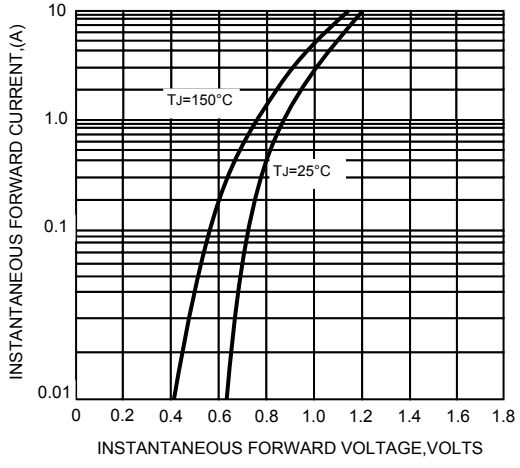


FIG.4-TYPICAL REVERSE CHARACTERISTICS

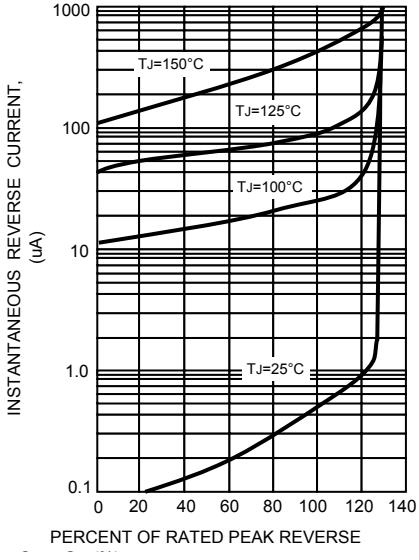
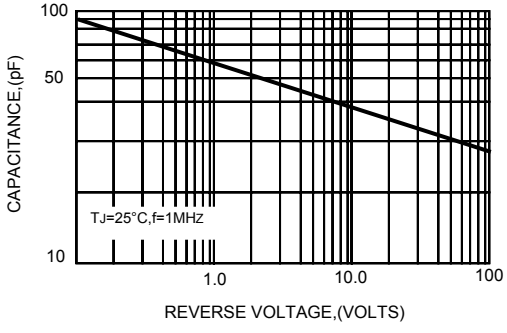


FIG.5-TYPICAL JUNCTION CAPACITANCE



The cruve graph is for reference only, can't be the basis for judgment( )!