



KBJ4005 THRU KBJ410

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

GLASS PASSIVATED BRIDGE RECTIFIERS

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



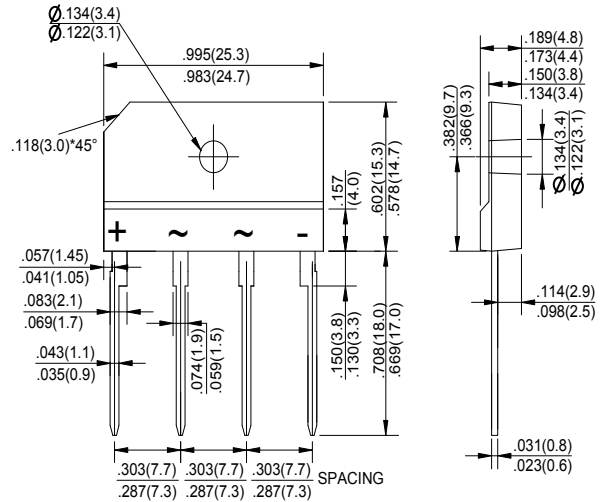
Mechanical Data

Case : JEDEC KBJ Molded plastic body

Terminals : Solder plated, solderable per MIL-STD-750, Method 2026

Polarity : Polarity symbol marking on body

Mounting Position : Any



Dimensions in inches and (millimeters)

Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

| Parameter | SYMBOLS | KBJ 4005 | KBJ 401 | KBJ 402 | KBJ 404 | KBJ 406 | KBJ 408 | KBJ 410 | UNITS |
|--|-----------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------------|
| | | MDD KBJ 4005 | MDD KBJ 401 | MDD KBJ 402 | MDD KBJ 404 | MDD KBJ 406 | MDD KBJ 408 | MDD KBJ 410 | |
| Maximum repetitive 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 @ $T_c=100^\circ\text{C}$ (without heatsink) | $I_{(AV)}$ | 4.0 2.4 | | | | | | | A |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) | I_{FSM} | 135.0 | | | | | | | A |
| Rating for Fusing ($t < 8.3\text{ms}$) | I^2t | 75.63 | | | | | | | A^2s |
| 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 $T_A=25^\circ\text{C}$ at rated DC blocking voltage $T_A=125^\circ\text{C}$ | I_R | 10 500 | | | | | | | μA μA |
| Typical Junction Capacitance (Note 1) | C_J | 45 | | | | | | | pF |
| Typical Thermal Resistance (Note 2) | $R_{\theta JA}$ | 2.2 | | | | | | | $^\circ\text{C}/\text{W}$ |
| Operating junction temperature range | T_J | -55 to +150 | | | | | | | $^\circ\text{C}$ |
| storage temperature range | T_{STG} | -55 to +150 | | | | | | | $^\circ\text{C}$ |

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.



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Ratings And Characteristic Curves

FIG.1-FORWARD CURRENT DERATING CURVE

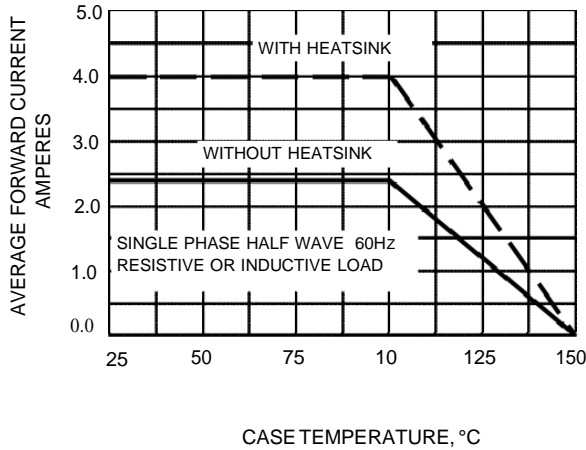


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

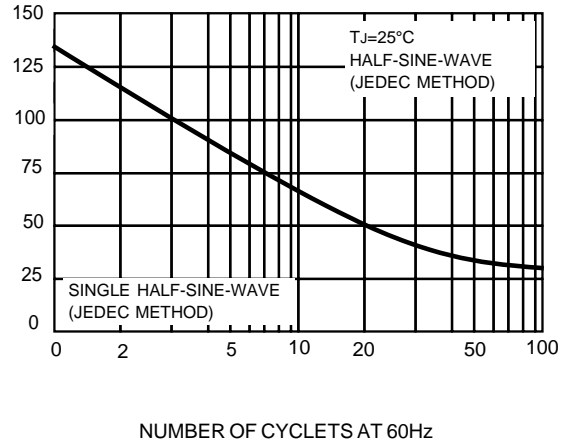


FIG.3-TYPICAL FORWARD CHARACTERISTICS

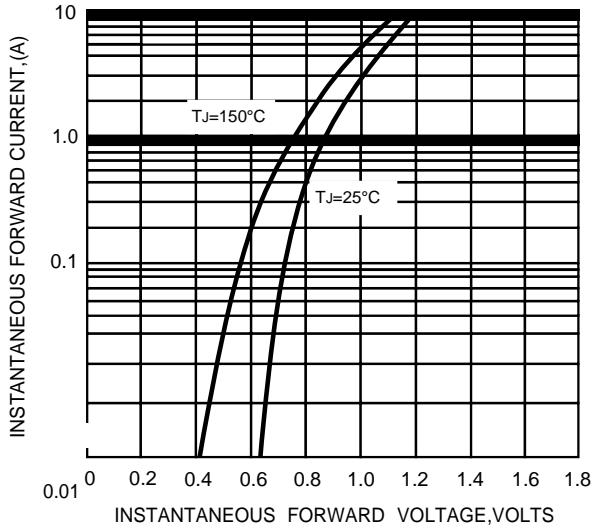


FIG.4-TYPICAL REVERSE CHARACTERISTICS

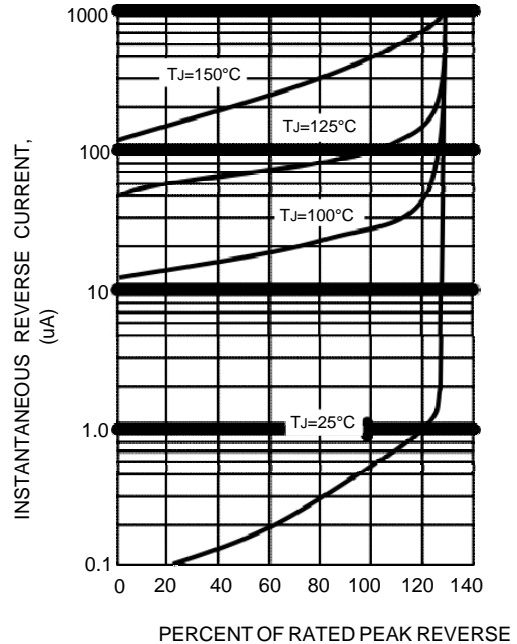
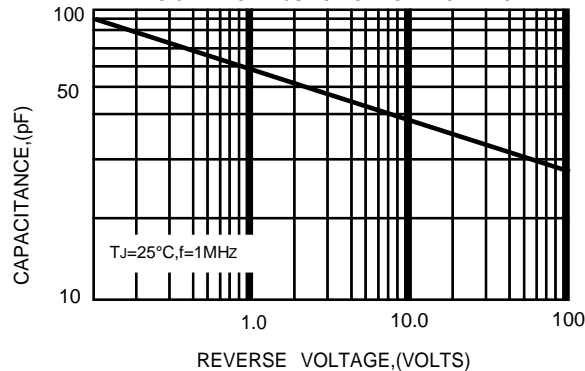


FIG.5-TYPICAL JUNCTION CAPACITANCE



The curve above is for reference only.

单击下面可查看定价，库存，交付和生命周期等信息

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