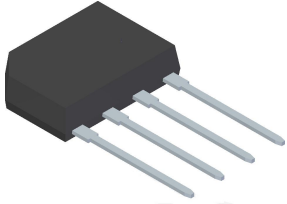
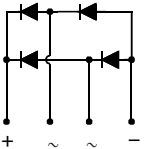


| | |
|---|---|
| GLASS PASSIVATED BRIDGE RECTIFIERS | REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 3.0 Amperes |
| <p style="text-align: center;"><u>KBP</u></p>   | <p>Features</p> <ul style="list-style-type: none"> • Rating to 1000V PRV • Ideal for printed circuit board • Reliable low cost construction utilizing molded plastic technique • The plastic material has UL flammability classification 94V#0 <p>Mechanical Data</p> <ul style="list-style-type: none"> • Polarity : As marked on body • Weight : 0.05 ounces, 1.52 grams • Mounting position : Any |

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

| CHARACTERISTICS | SYMBOL | KBP 3005 | KBP 301 | KBP 302 | KBP 304 | KBP 306 | KBP 308 | KBP 310 | UNIT |
|--|---|----------------|---------|---------|---------|---------|---------|---------|--------------|
| 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 Rectified Current @ $T_C=105^\circ C$ | $I_{(AV)}$ | 3.0 | | | | | | | A |
| Peak Forward Surge Current 8.3ms single half sine-wave @ $T_j = 25^\circ C$ | I_{FSM} | 60 | | | | | | | A |
| Maximum Forward Voltage at 3.0A DC | V_F | 1.1 | | | | | | | V |
| Maximum DC Reverse Current at rated Blocking Voltage @ $T_j=25^\circ C$ @ $T_j=125^\circ C$ | I_R | 5.0 500 | | | | | | | μA |
| I^2t Rating for fusing ($3ms \leq t \leq 8.3ms$) | I^2t | 14.94 | | | | | | | A^2S |
| Typical Junction Capacitance per element (Note 1) | C_J | 60 | | | | | | | pF |
| Typical thermal resistance (Unit mounted on 30mmx30mmx1mm Copper plate heatsink.) | $R_{\theta JC}$ $R_{\theta JL}$ $R_{\theta JA}$ | 10 12 30 | | | | | | | $^\circ C/W$ |
| Typical thermal resistance (without heatsink) | $R_{\theta JC}$ $R_{\theta JL}$ $R_{\theta JA}$ | 12 18 40 | | | | | | | $^\circ C/W$ |
| Operation Temperature Range | T_J | -55 to +150 | | | | | | | $^\circ C$ |
| Storage Temperature Range | T_{STG} | -55 to +150 | | | | | | | $^\circ C$ |

Note: (1) Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

FIG.1- FORWARD CURRENT DERATING CURVE

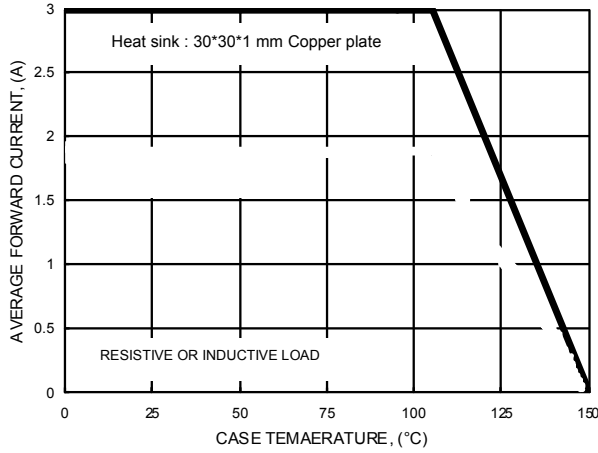


FIG.2- MAXIMUM NON-REPETITIVE SURGE CURRENT

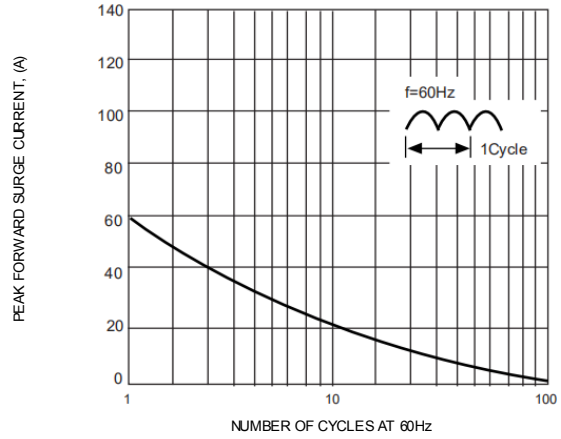


FIG.3- TYPICAL JUNCTION CAPACITANCE

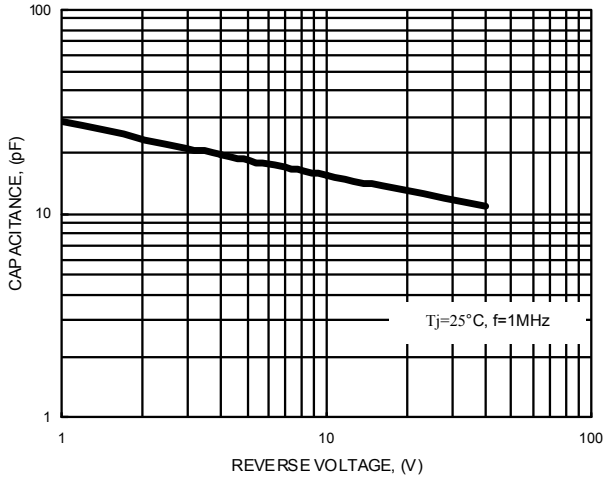


FIG.4- TYPICAL FORWARD CHARACTERISTICS

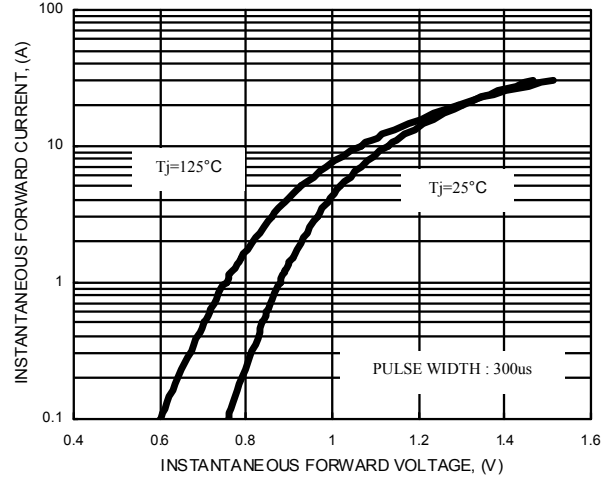
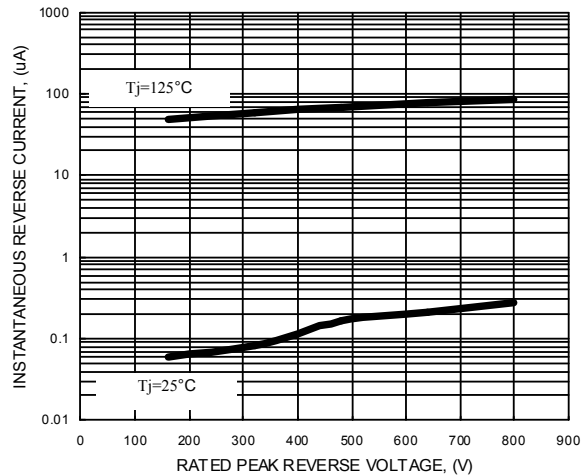
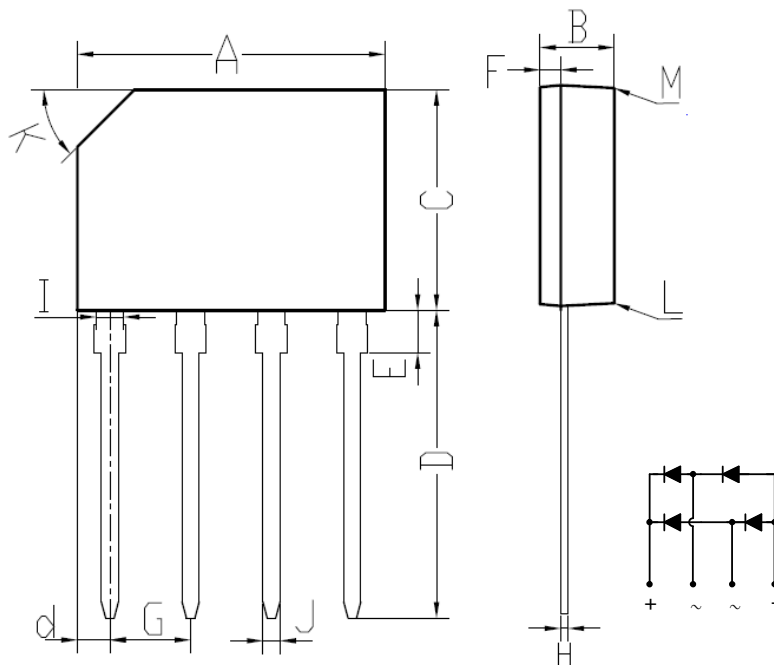


FIG.5- TYPICAL REVERSE CHARACTERISTICS



KBP Package Outline Dimensions



| GBP | | |
|------------------------------|-----------------|-------|
| DIM. | MIN. | MAX. |
| A | 14.20 | 14.70 |
| B | 3.30 | 3.60 |
| C | 10.20 | 10.60 |
| D | 13.80 | 14.40 |
| d | 1.40 | 1.70 |
| E | 1.80 | 2.20 |
| F | 0.80 | 1.10 |
| G | 3.71 | 3.91 |
| H | 0.30 | 0.55 |
| I | 1.22 | 1.42 |
| J | 0.76 | 0.86 |
| K | 2.7 x 45° (Typ) | |
| L | # | 3° |
| M | # | 2° |
| All Dimensions in millimeter | | |

单击下面可查看定价，库存，交付和生命周期等信息

[>>DIOS\(迪恩思\)](#)