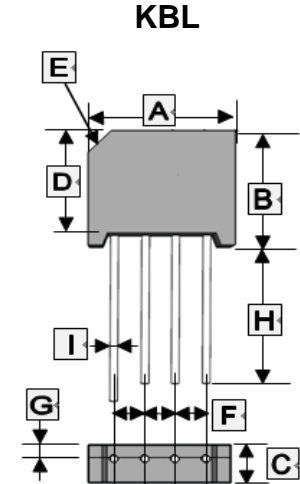


RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Surge overload rating – 150 Amperes peak
- Ideal for printed circuit board
- Plastic material has underwriters laboratory flammability classification 94V-0
- Mounting position: Any



| REF. | Millimeter | | REF. | Millimeter | |
|------|-------------|------|------|------------|------|
| | Min. | Max. | | Min. | Max. |
| A | 18.5 | 19.5 | F | 4.6 | 5.6 |
| B | 15.2 | 16.3 | G | 1.8 | 2.2 |
| C | 6.0 | 6.5 | H | 19.0 | - |
| D | 13.9 | 14.9 | I | 1.2 TYP. | - |
| E | (4.0) x 45° | | | | |

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, de-rate current by 20%.)

| Parameter | Symbol | Part Number | | | | | | | Unit |
|--|-------------------|-------------|----------|----------|----------|----------|----------|----------|------------|
| | | KBL 6005G | KBL 601G | KBL 602G | KBL 604G | KBL 606G | KBL 608G | KBL 610G | |
| Maximum Recurrent Peak Reverse Voltage | V_{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS Bridge Input 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 Output Current at $T_A=50^\circ C$ ¹ | $I_{(AV)}$ | 6 | | | | | | | A |
| Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load | I_{FSM} | 150 | | | | | | | A |
| Maximum Forward Voltage Drop Per Bridge Element @ 3.0A Peak | V_F | 1.1 | | | | | | | V |
| Maximum Reverse Current at Rated DC Blocking Voltage | $T_A=25^\circ C$ | 10 | | | | | | | μA |
| | $T_A=150^\circ C$ | 1 | | | | | | | mA |
| Operating & Storage Temperature Range | T_J, T_{STG} | -55~150 | | | | | | | $^\circ C$ |

Notes:

1. Mounting conditions, 0.5" lead length maximum

RATINGS AND CHARACTERISTIC CURVES

FIG.1-MAXIMUM FORWARD SURNGE CURRENT

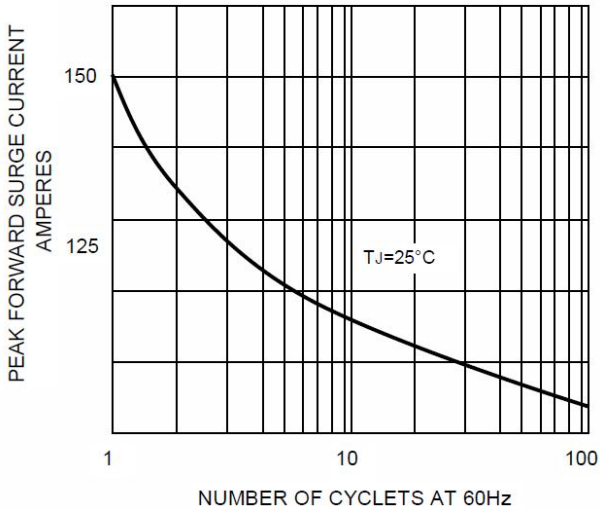


FIG.1-DERATING CURVE
OUTPUT RECTIFIED CURRENT

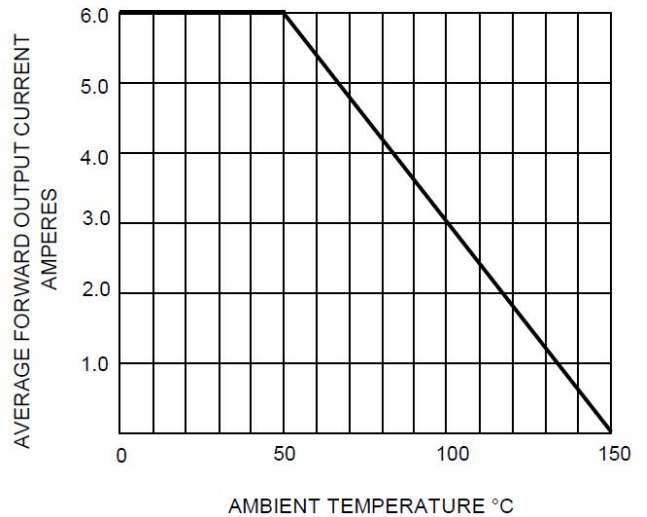


FIG.3-TYPICAL FORWARD CHARACTERISTICS

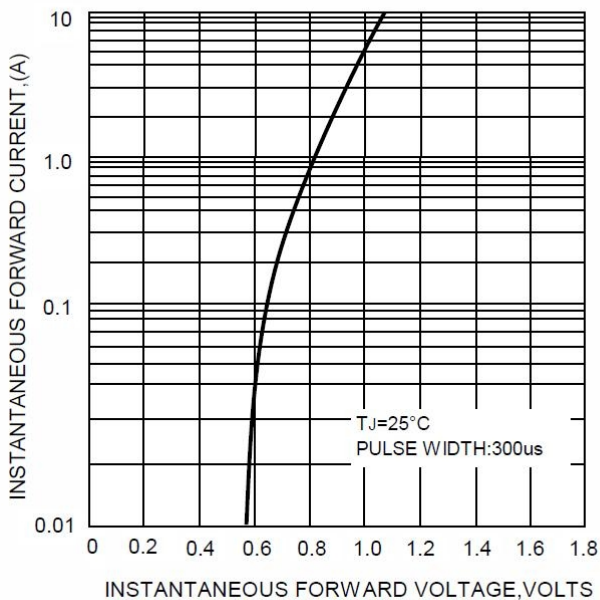


FIG.4- TYPICAL REVERSE CHARACTERISTICS

