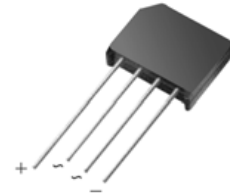


: YUhi fYg

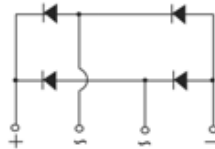
- Ideal for printed circuit boards
- High surge current capability
- High case dielectric strength of 1500 V_{RMS}
- Solder Dip 260 °C, 40 seconds



Package: KBL

A YW UbjWU'8 UHJ

- Case: KBL
- Epoxy meets UL-94V-0 Flammability rating
- Terminals: Silver plated (E4 Suffix) leads, solderable per J-STD-002B and JESD22-B102D
- Polarity: As marked on body
- Mounting Torque: 10 cm·kg (8.8 inches·lbs) max.
- Recommended Torque: 5.7 cm·kg (5 inches·lbs)



Schematic Diagram

Typical Applications

General purpose use in ac-to-dc bridge full wave rectification for Monitor, TV, Printer, SMPS, Adapter, Audio equipment, and Home Appliances applications

Maximum Ratings and Electrical Characteristics

(T_A=25°C unless otherwise noted)

Parameter	Symbols	KBL005	KBL01	KBL02	KBL04	KBL06	KBL08	KBL10	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 output current at T _A =50°C	I _{F(AV)}					4.0			Amps
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}					200.0			Amps
Maximum instantaneous forward voltage drop per leg at 2.0A	V _F					1.1			Volts
Maximum DC reverse current at rated DC blocking voltage per leg	I _R					5.0 1.0			uA mA
Typical thermal resistance per leg	R _{NJA} R _{MJL}					19 ⁽¹⁾ 2.4 ⁽²⁾			°C/W
Operating junction and storage temperature range	T _J , T _{STG}					-55 to +150			°C

- Notes:**
1. Thermal resistance from junction to ambient with units mounted on 3.0 x 3.0 x 0.11" thick (7.5 x 7.5 x 0.3 cm) Al. plate
 2. Thermal resistance from junction to lead with units mounted on P.C.B. at 0.375" (9.5 mm) lead length and 0.5 x 0.5" (13 x 13 mm) copper pads

Ratings and Characteristics Curves ($T_A = 25^\circ\text{C}$ unless otherwise noted)

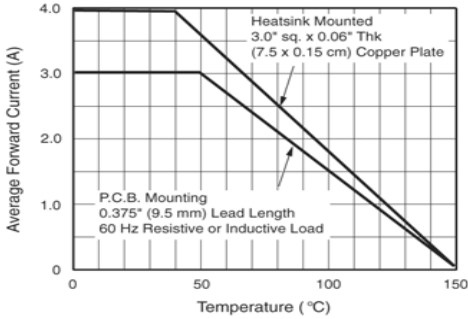


Figure 1. Derating Curve Output Rectified Current

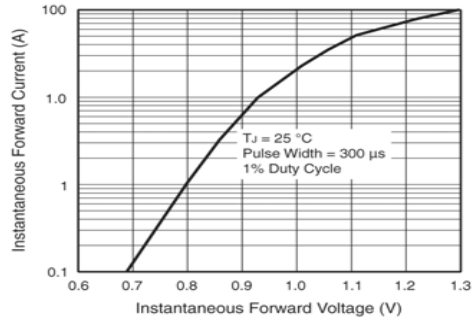


Figure 3. Typical Instantaneous Forward Characteristics Per Leg

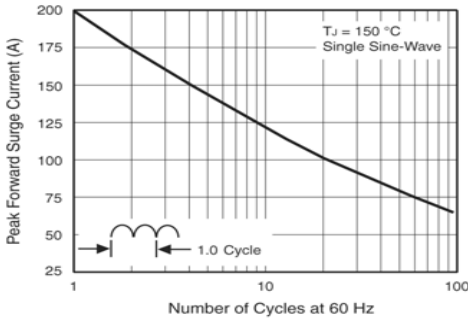


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current Per Leg

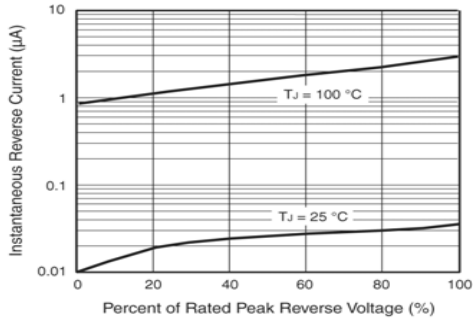


Figure 4. Typical Reverse Leakage Characteristics Per Leg

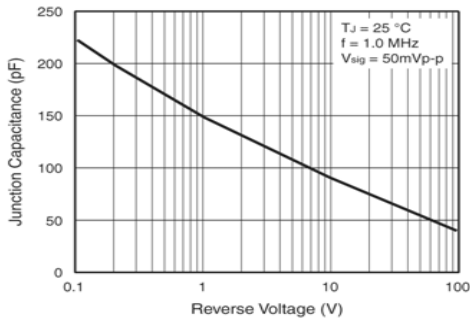


Figure 5. Typical Junction Capacitance Per Leg

Package Outline Dimensions

in inches (millimeters)

