



查询KBL06供应商

捷多邦，专业PCB打样工厂，24小时加急出货

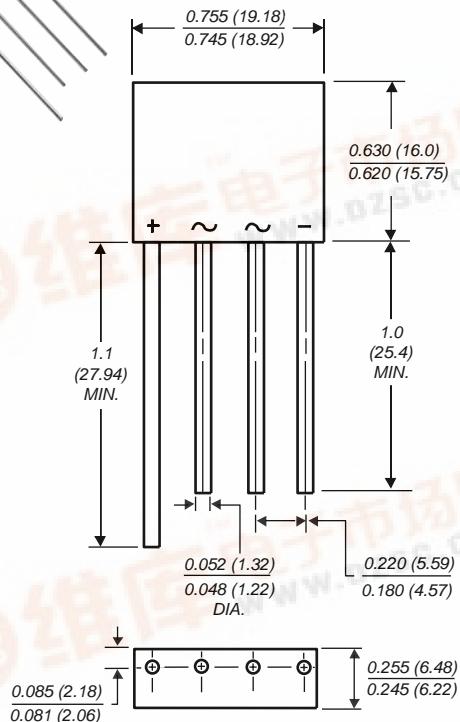
KBL005 thru KBL10

Vishay Semiconductors
formerly General Semiconductor



Single-Phase Bridge Rectifier

Case Style KBL



Dimensions in inches and (millimeters)

Reverse Voltage 50 and 1000 V
Forward Current 4.0 A

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- This series is UL listed under the Recognized Component Index, file number E54214
- High case dielectric strength of 1500 VRMS
- Ideal for printed circuit boards
- High forward surge current capability
- High surge current capability
- High temperature soldering guaranteed: 260°C/10 seconds, 0.375 (9.5mm) lead length, 5lbs. (2.3kg) tension

Mechanical Data

Case: Molded plastic body

Terminals: Plated leads solderable per MIL-STD-750, Method 2026

Mounting Position: Any

Weight: 0.2 oz., 5.6 g

Packaging codes/options:

1/300 EA. per Bulk Tray Stack

Maximum Ratings & Thermal Characteristics

 Ratings at 25°C ambient temperature unless otherwise specified.

	Symbols	KBL 005	KBL 01	KBL 02	KBL 04	KBL 06	KBL 08	KBL 10	Units
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 output current at T _A =50°C	I _{F(AV)}				4.0				A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method) T _J =150°C	I _{FSM}				200				A
Typical thermal resistance per leg (NOTE 1) (NOTE 2)	R _{θJA} R _{θJL}			19					°C/W
Operating junction storage and temperature range	T _J , T _{STG}			-50 to +150					°C

Electrical Characteristics

 Ratings at 25°C ambient temperature unless otherwise specified.

Maximum instantaneous forward drop per leg at 4.0 A	V _F	1.1	V
Maximum DC reverse current at rated DC blocking voltage per leg T _A = 25°C T _A =125°C	I _R	5.0 1.0	μA mA

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 0.3cm) Al. plate

(2) Thermal resistance from junction to lead with units mounted on P.C.B. at 0.375" (9.5mm) lead length and 0.5 x 0.5" (12 x 12mm) copper pads



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Ratings and Characteristic Curves (TA = 25°C unless otherwise noted)

**Fig. 1 – Derating Curve
Output Rectified Current**

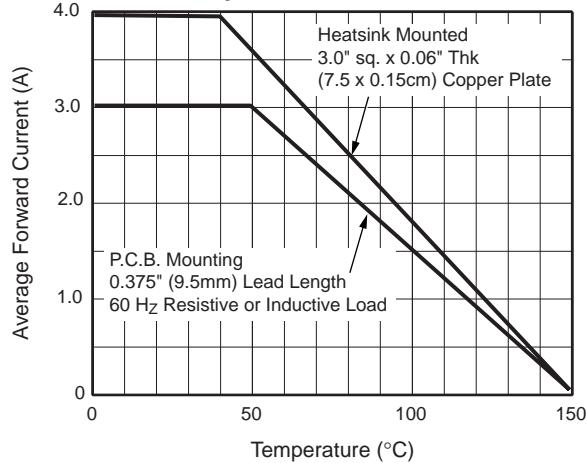


Fig. 2 – Maximum Non-Repetitive Peak Forward Surge Current Per Leg

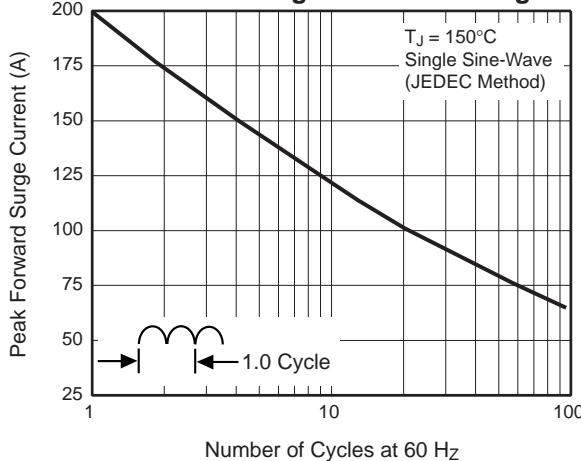


Fig. 3 – Typical Instantaneous Forward Characteristics Per Leg

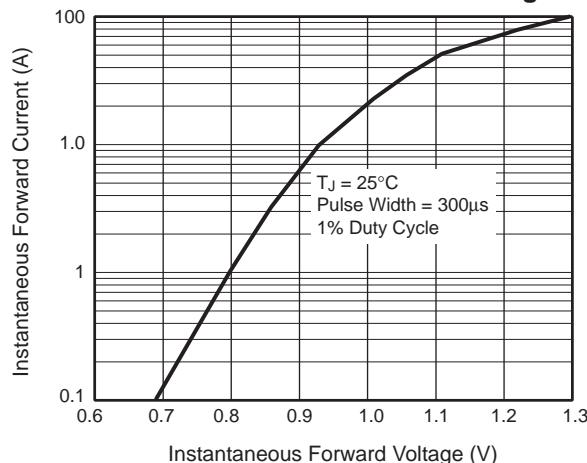


Fig. 4 – Typical Reverse Leakage Characteristics Per Leg

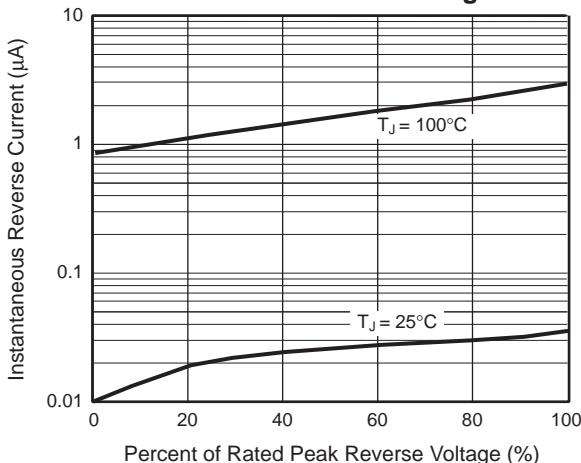


Fig. 5 – Typical Junction Capacitance Per Leg

