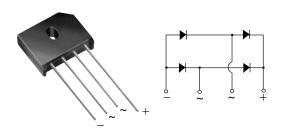


Vishay General Semiconductor

Single-Phase Bridge Rectifier



Case Style KBU

PRIMARY CHARACTERISTICS							
I _{F(AV)}	8 A						
V _{RRM}	50 V to 1000 V						
I _{FSM}	300 A						
I _R	10 μΑ						
V _F	1.0 V						
T _J max.	150 °C						

FEATURES





Ideal for printed circuit boards



High surge current capability

High case dielectric strength of 1500 V_{RMS}

ROHS

Solder dip 260 °C, 40 s

 Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC

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.

MECHANICAL DATA

Case: KBU

Epoxy meets UL 94V-0 flammability rating

Terminals: Silver plated leads, solderable per

J-STD-002 and JESD22-B102 E4 suffix for consumer grade **Polarity:** As marked on body

Mounting Torque: 10 cm-kg (8.8 inches-lbs) max. **Recommended Torque:** 5.7 cm-kg (5 inches-lbs)

MAXIMUM RATINGS (T _A = 25 °C unless otherwise noted)									
PARAMETER	SYMBOL	KBU8A	KBU8B	KBU8D	KBU8G	KBU8J	KBU8K	KBU8M	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
$ \begin{array}{ll} \mbox{Maximum average forward} & \mbox{$T_C = 100 \ ^{\circ}C$} \ ^{(1)(3)} \\ \mbox{rectified output current at} & \mbox{$T_A = 40 \ ^{\circ}C$} \ \end{array} $	I _{F(AV)}	8.0 6.0				Α			
Peak forward surge current single sine-wave superimposed on rated load	I _{FSM}	300			Α				
Operating junction and storage temperature range	T _J , T _{STG}	- 50 to + 150				°C			

Notes:

- (1) Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with #6 screw
- (2) Units mounted in free air, no heatsink, P.C.B. at 0.375" (9.5 mm) lead length with 0.5 x 0.5" (12 x 12 mm) copper pads
- (3) Units mounted on a 3.0 x 3.0" x 0.11" thick (7.5 x 7.5 x 0.3 cm) aluminum plate heatsink

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ELECTRICAL CHARACTERISTICS (T _A = 25 °C unless otherwise noted)										
PARAMETER	TEST CONDITIONS	SYMBOL	KBU8A	KBU8B	KBU8D	KBU8G	KBU8J	KBU8K	KBU8M	UNIT
Maximum instantaneous forward drop per diode	8.0 A	V _F	1.0					V		
Maximum DC reverse current at rated DC blocking voltage per diode	T _A = 25 °C T _A = 125 °C	I _R	10 1.0					μA mA		

THERMAL CHARACTERISTICS (T _A = 25 °C unless otherwise noted)							
PARAMETER	SYMBOL KBU8A KBU8B KBU8D KBU8G KBU8J KBU8K KBU8M UNIT						UNIT
Typical thermal resistance	$egin{array}{c} {\sf R}_{ heta {\sf JA}} \ {\sf R}_{ heta {\sf JC}} \end{array}$	18 ⁽²⁾ 3.0 ⁽³⁾				°C/W	

Notes:

- (1) Units mounted in free air, no heatsink, P.C.B. at 0.375" (9.5 mm) lead length with 0.5 x 0.5" (12 x 12 mm) copper pads
- (2) Units mounted on a 3.0 x 3.0" x 0.11" thick (7.5 x 7.5 x 0.3 cm) aluminum plate heatsink

ORDERING INFORMATION (Example)							
PREFERRED P/N	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE BASE QUANTITY DELIVERY MODE					
KBU8J-E4/51	8.0	51	250	Anti-static PVC tray			

RATINGS AND CHARACTERISTICS CURVES

(T_A = 25 °C unless otherwise noted)

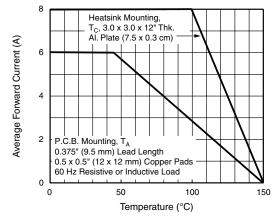


Figure 1. Derating Curve Output Rectified Current

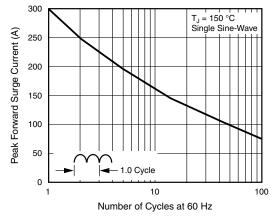


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current



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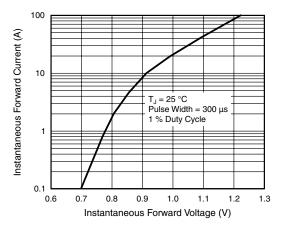


Figure 3. Typical Instantaneous Forward Characteristics Per Diode

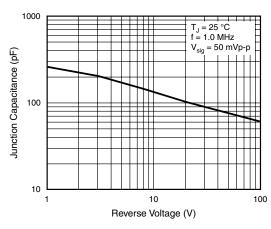


Figure 5. Typical Junction Capacitance Per Diode

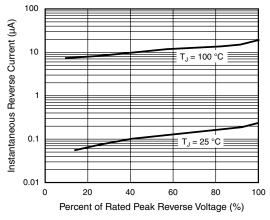
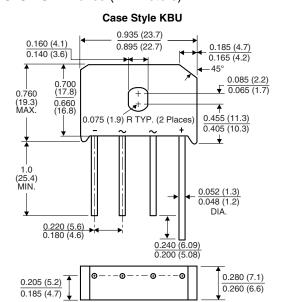


Figure 4. Typical Reverse Leakage Characteristics Per Diode

PACKAGE OUTLINE DIMENSIONS in inches (millimeters)





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