

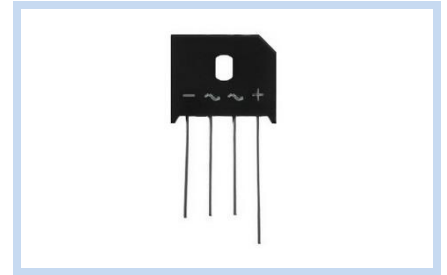
Single-Phase Bridge Rectifier 8.0A KBU Package

KBU8A~KBU8M

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FEATURE

- Operating Temperature: -55 ~ +150°C
- Average Forward Rectified Output Current 8.0A
- Repetitive Reverse Voltage from 50~1000V
- Surge Overload Ratings to 300A
- Flammability Classification 94V-0
- UL Safety Approved: Certification No: E223027



MAXIMUM RATINGS AND THERMAL CHARACTERISTICS



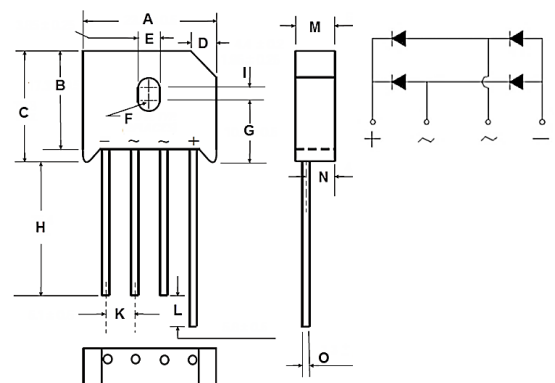
Parameter	Code	KBU 8A	KBU 8B	KBU 8D	KBU 8G	KBU 8J	KBU 8K	KBU 8M	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Output Current	I _F	8.0, T _C =100°C							A
		6.0, T _A =45°C							
Peak Forward Surge Current Single Sine-Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	300							A
Rating for Fusing (t<8.3ms)	I ² t	300							A ² sec
Maximum Instantaneous Forward Voltage Drop per Diode	V _F	1.1, I _F =8.0A							V
Maximum DC Reverse Current at Rated DC Blocking Voltage per Element	I _R	10, T _A =25°C							μA
	I _R	500, T _A =125°C							μA
Operating Junction and Storage Temperature	T _J ,T _{STG}	-55~150							°C
Typical Thermal Resistance per Element	R _{θJA}	2.7							°C/W

Note:

1. Rating at 25°C ambient temperature unless otherwise specified. Resistive or Inductive load, 60Hz. For Capacitive load derate current by 20%.
2. Thermal resistance from Junction to Ambient on P.C. board mounting.

DIMENSION AND PIN CONFIGURATION

Item	Min. (mm)	Max. (mm)	Item	Min. (mm)	Max. (mm)
A	22.70	23.70	H	25.40	-
B	16.80	17.80	I	1.70	2.20
C	-	19.30	K	4.60	5.60
D	4.20	4.60	L	5.10	6.10
E	3.60	4.10	M	6.60	7.00
F	1.90 R. TYP. (2 PLACES)		N	4.70	5.10
G	10.30	11.30	O	1.20	1.30



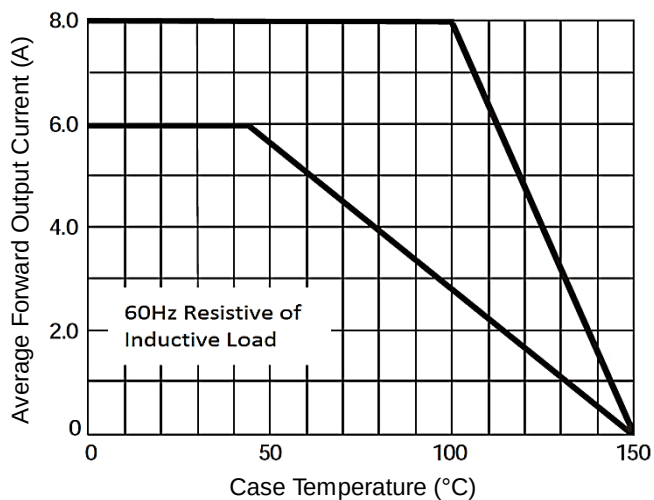
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KBU8A~KBU8M

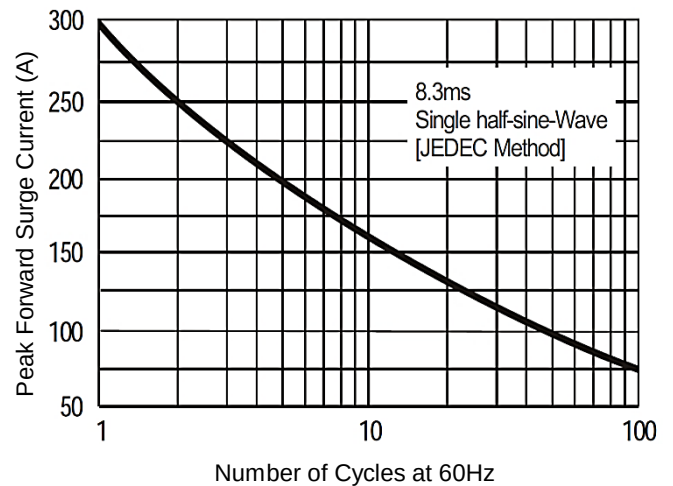
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RATING AND CHARACTERISTIC CURVES

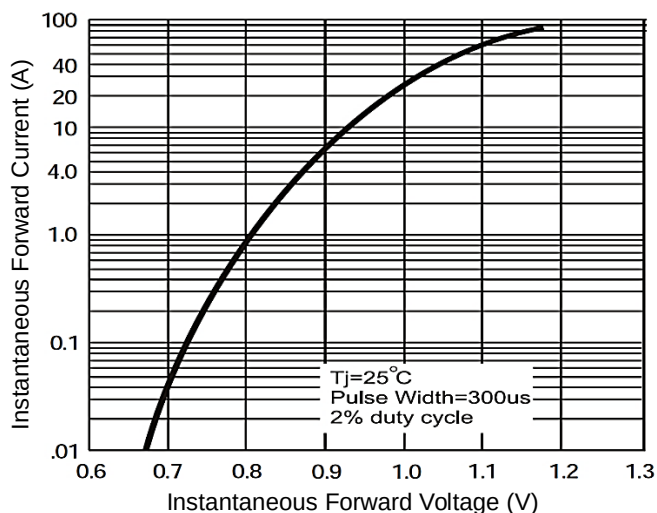
Derating Curve for Output Rectified Current



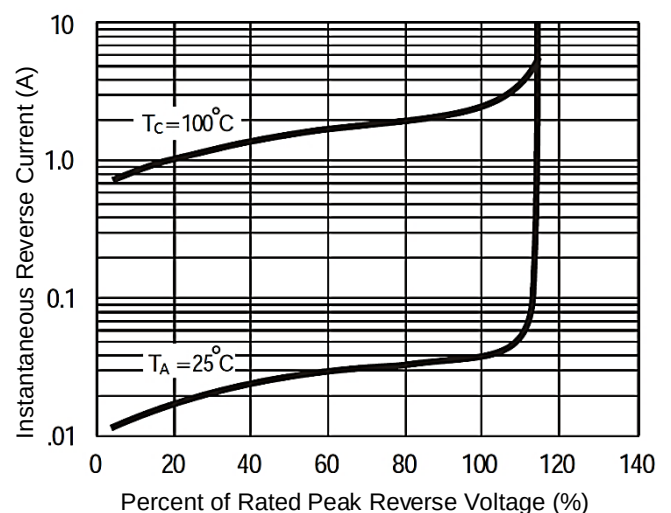
Maximum Non-Repetitive Peak Forward Surge Current



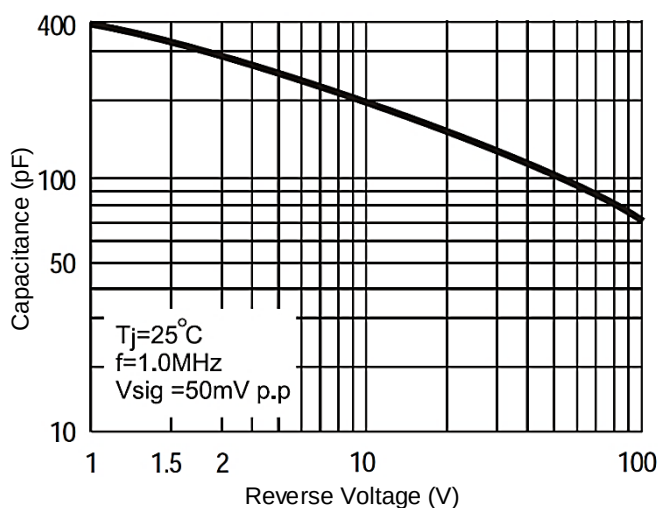
Typical Instantaneous Forward Characteristics



Typical Reverse Characteristics at T_J=25°C



Typical Junction Capacitance



*Specifications subject to change without notice.

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