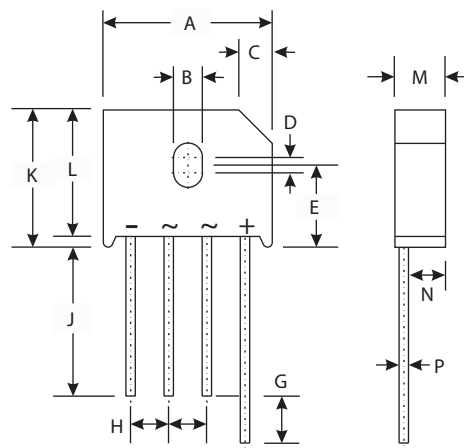


KBU8A THRU KBU8M

CURRENT 8.0 Amperes
VOLTAGE 50 to 1000 Volts

Features

- Low Forward Voltage Drop, High Current Capability
- Surge Overload Rating to 300A Peak
- Ideal for Printed Circuit Board Applications
- Case to Terminal Isolation Voltage 1500V
- Plastic Material - UL Flammability Classification Rating 94V-0



KBU					
Dim	Min	Max	Dim	Min	Max
A	22.70	23.70	J	25.40	—
B	3.80	4.10	K	—	19.30
C	4.20	4.70	L	16.80	17.80
D	1.70	2.20	M	6.60	7.10
E	10.30	11.30	N	4.70	5.20
G	4.50	6.80	P	1.20	1.30
H	4.80	5.80			
All Dimensions in mm					

Mechanical Data

- Case : Molded Plastic
- Terminals : Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity : As Marked on Case
- Mounting : Through Hole for #6 Screw
- Mounting Torque : 5.0 Inch-pounds Maximum
- Weight : 8.0 grams (approx.)
- Marking : Type Number

Maximum Ratings And Electrical Characteristics

(Ratings at 25°C ambient temperature unless otherwise specified, Single phase, half wave 60Hz, resistive or inductive load. For capacitive load, derate by 20%)

	Symbols	KBU 8A	KBU 8B	KBU 8D	KBU 8G	KBU 8J	KBU 8K	KBU 8M	Units
Peak Repetitive Reverse voltage	V _{RMM}	50	100	200	400	600	800	1000	Volts
Working Peak Reverse voltage	V _{RWM}								
DC Blocking voltage	V _R								
RMS Reverse voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Average Rectified Output Current @ T _C =100°C	I _O	8.0							Amps
Non-Repetitive Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	300							Amps
Forward voltage (per element) @ I _F =4.0 A	V _{FM}	1.0							Volts
Peak Reverse Current at Rated DC Blocking voltage	@ T _C =25°C	10							μ A
	@ T _C =125°C	1.0							mA
I ² t Rating for Fusing (Note 2)	I ² t	373							A ² s
Typical Thermal Resistance, Junction to Case (Note 1)	R _{θ JA}	7.5							°C/W
Operating and Storage Temperature Range	T _J T _{STG}	-65 to +150							°C

Notes:

- (1) Thermal resistance junction to case mounted on heat sink.
- (2) Non-repetitive, for t > 1.0ms and t < 8.3ms.

RATINGS AND CHARACTERISTIC CURVES KBU8A THRU KBU8M

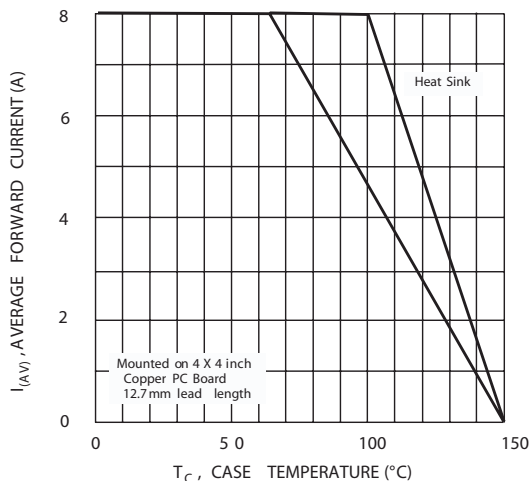


Fig. 1 Forward Current Derating Curve

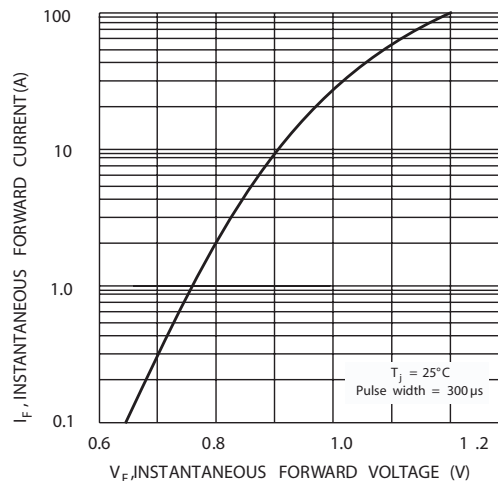


Fig. 2 Typical Forward Characteristics

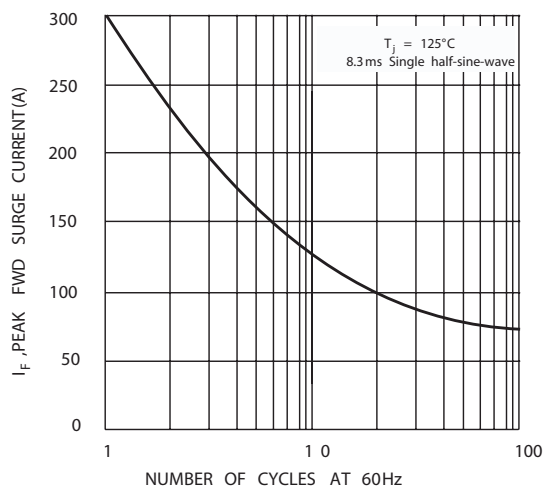


Fig. 3 Max Non-Repetitive Surge Forward Current

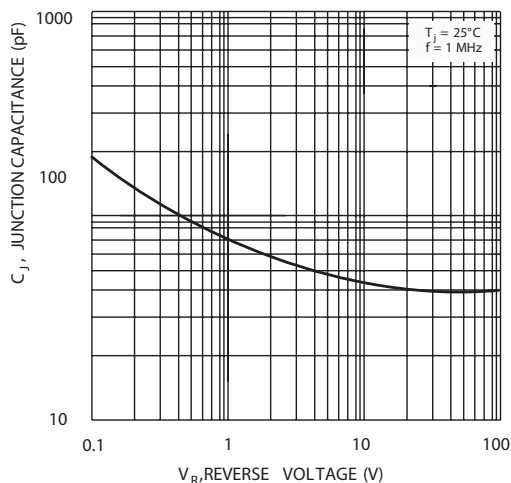


Fig. 4 Typical Junction Capacitance per element

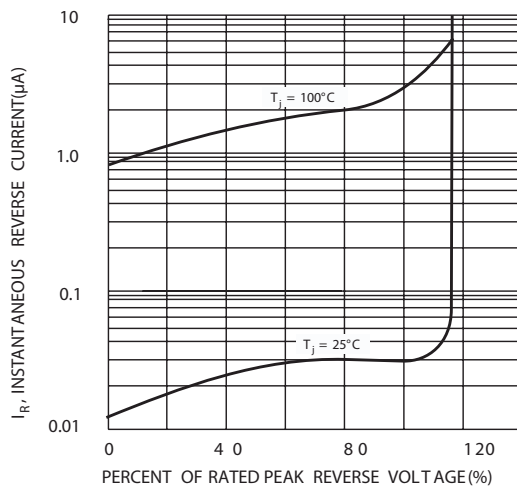


Fig. 5 Typical Reverse Characteristics