

KBU401 - KBU407







Features

- UL Recoganized File # E-326243
- Ideal for printed circuit board
- High case dielectric strength
- Plastic material has Underwriters laboratory flammability Classification 94V-0
- Typical IR less than 0.1uA
- High surge current capability
- High temperature soldering guaranteed: 260°C / 10 seconds at 5 lbs., (2.3 kg) tension
- Green compound with suffix "G" on packing code & prefix "G" on datecode.

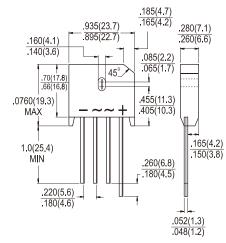
Mechanical Data

Case: Molded plastic body

Terminal: Pure tin plated, Lead free. Leads solderable per MIL-STD-202 Method 208

Weight: 8.0 grams

Mounting Torque: 5 in lbs max. \diamond



Dimension in inches and (millimeter)

Marking Diagram



Maximum Ratings and Electrical Characteristics

Rating at 25°Cambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

Type Number	Symbol	KBU 401	KBU 402	KBU 403	KBU 404	KBU 405	KBU 406	KBU 407	Units		
Maximum Recurrent 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 Rectified Current											
@ T _A = 65°C	I _{F(AV)}	4.0							Α		
Peak Forward Surge Current, 8.3 ms Single Half Sine-		200							А		
wave Superimposed on Rated Load (JEDEC method)	I _{FSM}										
Rating of fusing (t < 8.3mS)	l ² t	166						A ² S			
Maximum Instantaneous Forward Voltage @ 2.0A	.,	1.0 1.1							V		
@ 4.0A	V _F										
Maximum DC Reverse Current @ TA=25°C		5.0 500							uA		
at Rated DC Blocking Voltage @ T _A =125°C (Note 1)	I _R										
Typical Junction Capacitance per leg (Note 3)	Cj	240						pF			
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	19							°C/\\/		
	$R_{\theta JC}$				4.0				°C/W		
Operating Temperature Range	T_{J}	-55 to +125						°C			
Storage Temperature Range	T _{STG}	-55 to +150						°C			

Note: 1. Pulse Test with PW=300 usec,1% Duty Cycle.

2. Unit case mounted on 2" x 3" x 0.25" Al plate heat sink.

3. Measured at 1MHz and applied Reverse bias of 4.0V DC.

Version: E10



RATINGS AND CHARACTERISTIC CURVES (KBU401 THRU KBU407)

FIG 1 Maximum Derating Curve for Output Current Average Forward Current 3 3 Mounted on 2' 2 x 3" x 0.25" A**l-**0 40 60 80 100 Ambient Temperature(°C) 0 120 140 160 20

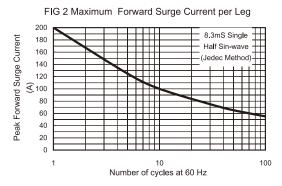
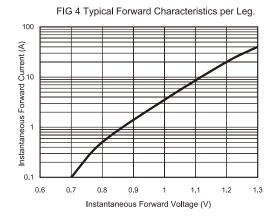


FIG 3 Typical Reverse Leakage Characteristics per Leg 1000 Instantaneous Reverse Current (uA) 100 TA =125°C 10 T_A =25°C 0.1 0 20 60 80 100 120 140 Percent of Rated Peak Reverse Volatge (V)



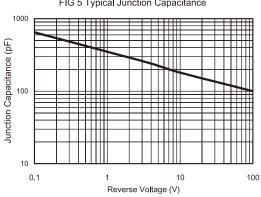


FIG 5 Typical Junction Capacitance

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