

KBU4005 THRU KBU410

4A Miniature Glass Passivated Single-Phase Bridge Rectifiers

■ Features

- Surge overload ratings to 150 amperes peak.
- Recommended for non-automatic applications.
- Ideal for & save space on printed circuit board.
- Applicable for automatic insertion.
- Reliable low cost construction utilizing molded plastic technology results in inexpensive product.
- Glass passivated chip junctions.
- Suffix "G" indicates Halogen-free part, ex.KBU4005G.
- · Lead-free parts meet RoHS requirments.

■ Mechanical data

• Epoxy:UL94-V0 rated flame retardant

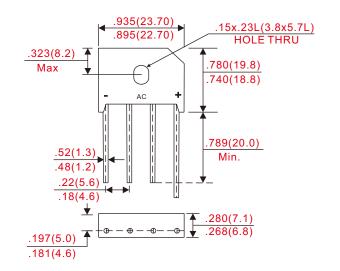
· Case: Molded plastic, KBU

 Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

Polarity: marked on bodyWeight: Approximated 8.0 gram

Outline

KBU



Dimensions in inches and (millimeters)

■ Maximum ratings and electrical characteristics

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

Parameter	Conditions	Symbol	MIN.	TYP.	MAX.	UNIT
Forward rectified current	$T_c = 90^{\circ}C$	Io			4.0	Α
Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I _{FSM}			120	А
	$V_R = V_{RRM} T_A = 25^{\circ}C$				10	uA
Reverse current	$V_R = V_{RRM} T_A = 125^{\circ}C$	I _R			500	
Current squared time	t < 8.3ms, T _J = 25°C	I²t			93	A^2S
Thermal resistance	junction to ambient	R _{eJA}			13	°C/W
Storage temperature		T _{stg}	-55		+150	°C

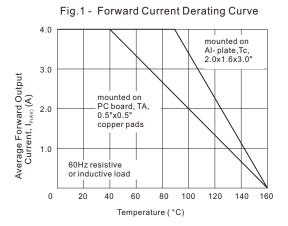
Marking code	Max. repetitive peak reverse voltage V _{RRM} (V)	Max. RMS voltage V _{RMS} (V)	Max. DC blocking voltage $V_{_{R}}(V)$	Max. forward voltage @2A, $T_A = 25^{\circ}C$ $V_F(V)$	Operating Junction temperature T _J (°C)
KBU005	50	35	50		
KBU01	100	70	100		
KBU02	200	140	200		
KBU04	400	280	400	1.1	-55 ~ +150
KBU06	600	420	600		
KBU08	800	560	800		
KBU10	1000	700	1000		
	KBU005 KBU01 KBU02 KBU04 KBU06 KBU08	Marking code repetitive peak reverse voltage VRRM (V) KBU005 50 KBU01 100 KBU02 200 KBU04 400 KBU06 600 KBU08 800	Marking code repetitive peak reverse voltage V _{RRM} (V) RMS voltage V _{RMS} (V) KBU005 50 35 KBU01 100 70 KBU02 200 140 KBU04 400 280 KBU06 600 420 KBU08 800 560	Marking code repetitive peak reverse voltage V _{RMS} (V) RMS voltage V _{RMS} (V) Max. DC blocking voltage V _{RMS} (V) KBU005 50 35 50 KBU01 100 70 100 KBU02 200 140 200 KBU04 400 280 400 KBU06 600 420 600 KBU08 800 560 800	Marking code repetitive peak reverse voltage V _{RMS} (V) RMS voltage blocking voltage V _{R (V)} Max. DC blocking voltage plocking voltage with plocking voltage v _{R (V)} (W) Max. Torward voltage with plocking voltage with plocking voltage v _{R (V)} (W) (W) (W) Max. Torward voltage with plocking voltage with plocking voltage with plocking voltage v _{R (V)} (W) (W)

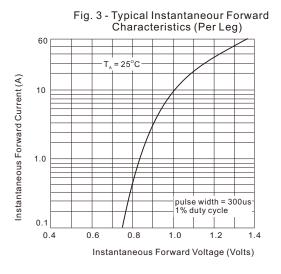
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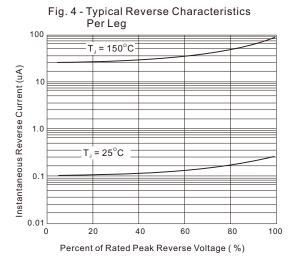
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■ Rating and characteristic curves







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