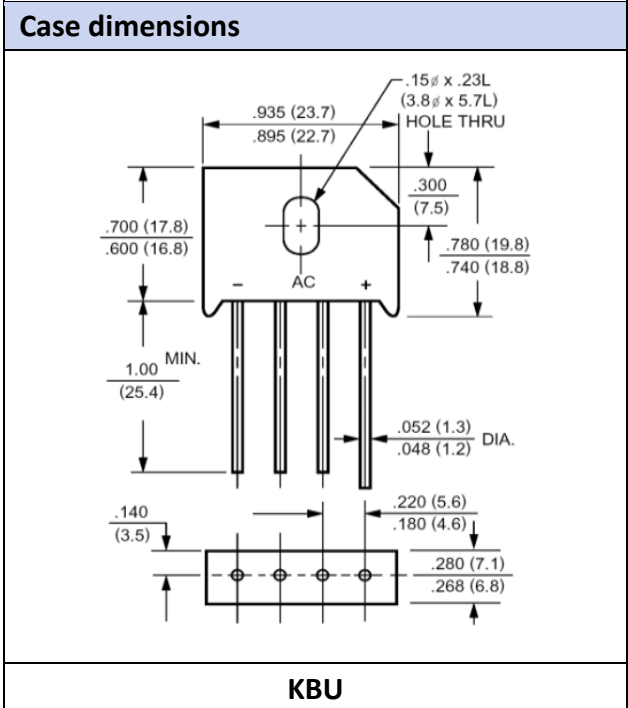


SMD Rectifier Bridge

Primary characteristics		
Parameter	Value	Unit
Maximum Repetitive Peak Reverse Voltage	50 ~ 1000	V
Maximum Average Forward Rectified Current	8.0	A

Features

- KBU case for easy automatic insertion.
- Pb-free and RoHS compliant
- Low forward voltage drop
- High current capability
- Glass passivated chip junction
- Low power loss, high efficiency
- Solderable per MIL-STD-750, Method 2026
- Weight: 8g/0.3oz



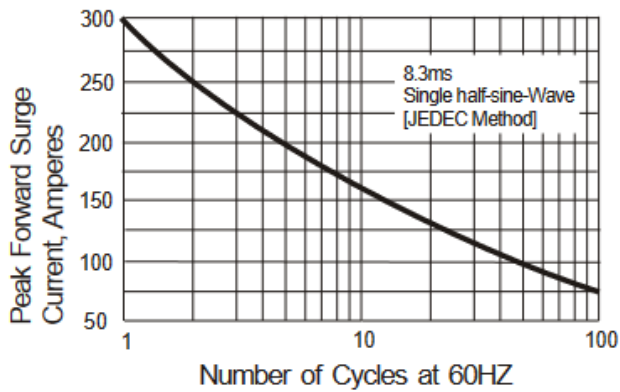
Absolute maximum ratings and general electrical characteristics (T_a = 25°C)

Parameter		Symbol	Value							Unit
			KBU8005	KBU801	KBU802	KBU804	KBU806	KBU808	KBU810	
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	
Maximum DC blocking voltage		V _{DC}	50	100	200	400	600	800	1000	
Maximum average forward rectified current	T _C =100°C	I _(AV)	8.0							A
Peak forward surge current 8.3mS single half sine wave superimposed on rated load (JEDEC method)		I _{FSM}	300							
Maximum instantaneous forward voltage @I _F =2.0A, 25°C		V _F	1.1							V
Maximum DC reverse current at rated DC blocking voltage	T _a =25°C	I _R	10							μA
	T _a =125°C		500							
Typical junction capacitance ¹⁾		C _j	200							pF
Typical thermal resistance ²⁾		R _{θJA}	2.7							°C/W
Operating junction and storage temperature range		T _j , T _{STG}	-55 ~ 150							°C

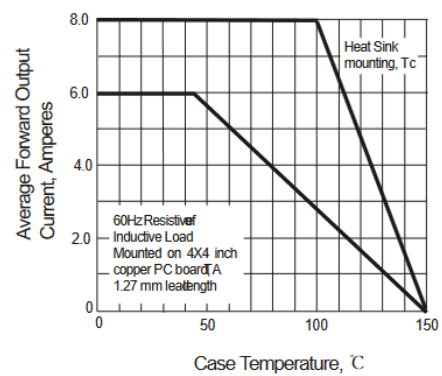
Notes:

- 1) Measured at 1.0MHz and applied reverse voltage of 4.0VDC
- 2) Unit case mounted on 4" x 6" x 0.25cm" aluminium plate heat sink

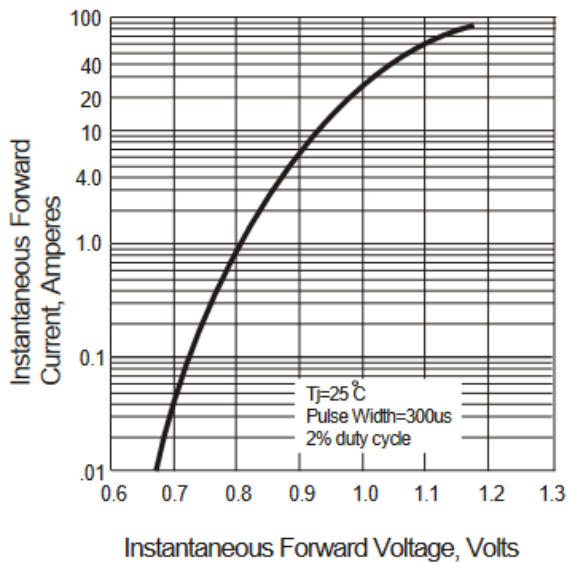
Maximum non-repetitive forward surge current



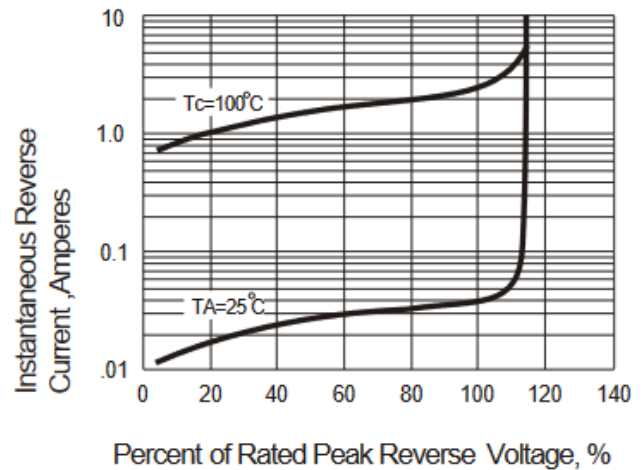
Derating curve for output rectified current



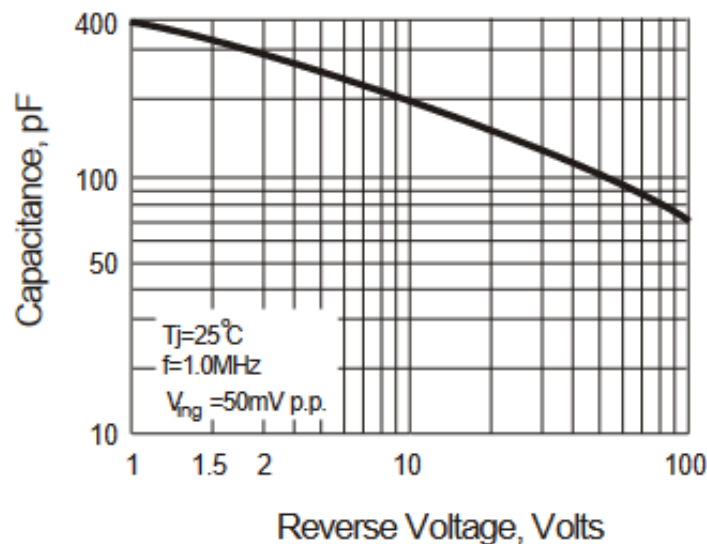
Typical instantaneous forward characteristics



Typical reverse characteristics



Typical junction capacitance



Ordering information			
Part Number	Package	Shipping Quantity	Industry standard
KBU8005 ~ KBU810	KBU	400 pcs	EIA-481-1

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