

KBU4005 THRU KBU410 KBU

4.0A GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

Reverse Voltage - 50 to 1000 V

Forward Current - 4.0A

FEATURES

♦Glass passivated chip

♦Low Reverse Leakage Current

♦High surge current capability

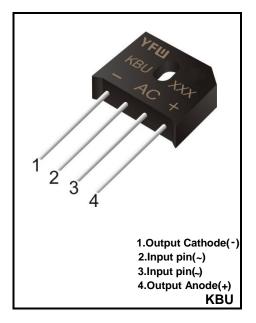
♦Case to Terminal Isolation Voltage 2500V

MECHANICAL DATA

♦Case: KBU

Marking / Polarity: Marked on Body

♦Weight: About 6.66 grams



Maximum Ratings and Thermal Characteristics @ Ta = 25℃ unless otherwise noted

Parameter	Symbols	KBU4005	KBU401	KBU402	KBU404	KBU406	KBU408	KBU410	Units
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	v
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	v
Average Forward Output Rectified Current@Ta =85 °C	I _{F(AV)}	4.0					А		
Peak Forward Surge Current 8.3ms Single Half Sine- wave superimposed on rated load	I _{FSM}	160					Α		
Forward Voltage Per Leg @I _{FM} =4.0A	V _F	1.1					v		
Maximum DC Reverse Current Ta=25°C at Rated DC Blocking Voltage Ta=125°C	I _R	5 500					μΑ		
l²t Rating for Fusing(t≤8.3ms)	l²t	106					A ² S		
Rms isolation voltage from case to leads	V _{isol}	2500					v		
Maximum thermal resistance per leg	R _{eJC}	4.2					°C/W		
Operating and Storage Temperature Range	T_j , T_{stg}	-55 ~ + 150					°C		

Note:

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⁽¹⁾ Junction to case with heatsink

⁽²⁾ Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with M3 screw .





Ratings And Characteristic Curves

Fig 1-forwardCurrent derating Curve

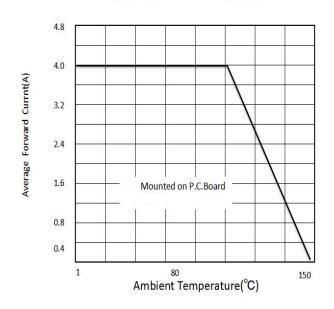
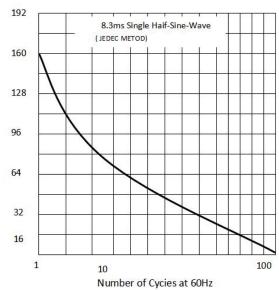


Fig.2-Maximum Non-Repetitive Surge Current



Peak Forwaed Surge Current(A)

Fig.3-Typical Reverse Characteristics

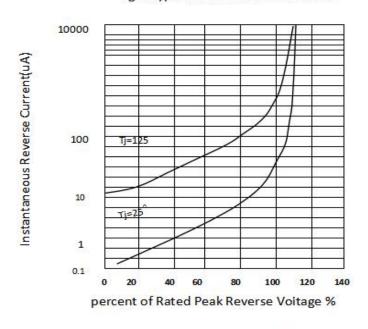
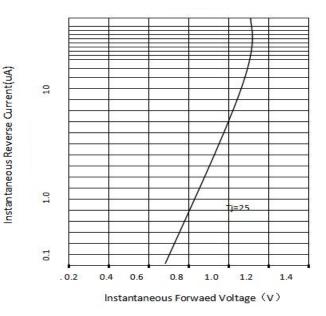
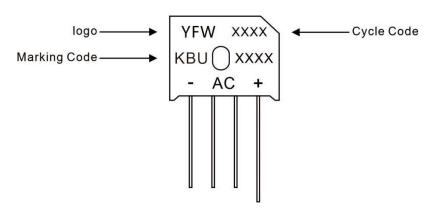


Fig.4-Typical Forwaed Characteristics





Marking Diagram

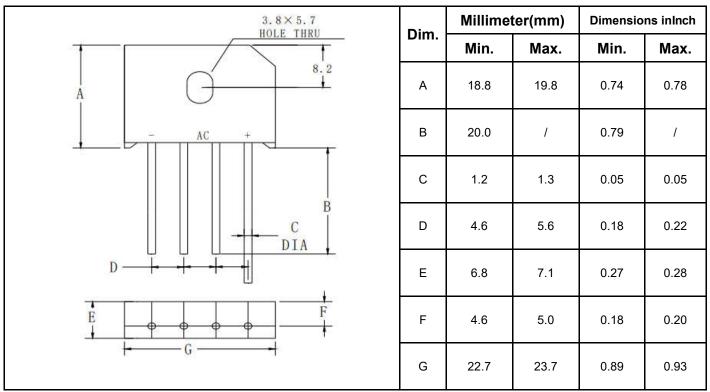


Ordering information

Package	Packing Description	Packing Quantity			
KBU	bulk	400PCS/Box 2400PCS/Carton			

Package Dimensions

KBU



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