Kingtronics®

KBL4005 THRU KBL410

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 4.0 Ampere

KBL

FEATURES

Ideal for printed circuit board mounting
The plastic material used carries Underwriters Laboratory
flammability recognition 94V-0
Built-in printed circuit board stand-offs
High case dielectric strength

High temperature soldering guaranteed 260 $^{\circ}$ C /5 seconds at 5 lbs (2.3kg) tension

MECHANICAL DATA

Case: Reliable low cost construction utilizing

molded plastic technique

Terminals: Plated leads solderable per MIL-STD-202,

Method 208 Mounting Position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25° C ambient temperature unless otherwise specified, Resistive or Inductive load, 60 Hz.

For Capacitive load derate current by 20%.

14.6 ± 0.5 15.6 ± 0.5 15.6 ± 0.5 16.4 MIN. 5.1 ± 0.5

Dimensions in millimeters

 5.40 ± 0.50

PARAMETER	SYMBOL	KBL4005	KBL401	KBL402	KBL404	KBL406	KBL408	KBL410	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS bridge input 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 output current at T_c = 100°C (with heatsink)	I _{F(AV)}	4.0						Α	
Peak Forward Surge Current single sine-wave Superimposed on Rated Load (JEDEC method)	Ігѕм	135							А
Rating for fusing (t<8.3ms)	l²t	95							A ² sec
Operating junction and storage temperature	TJ, TSTG	-55 to +150						$^{\circ}\!\mathbb{C}$	

Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified. Resistive or Inductive load, 60Hz.

For Capacitive load derate by 20 %.

1 of Capacitate load active by 20 70.										
PARAMETER	SYMBOL	KBL4005	KBL401	KBL402	KBL404	KBL406	KBL408	KBL410	UNIT	
Maximum instantaneous forward voltage drop per leg at 4.0A	VF	1.1						V		
Maximum Reverse Current at Rated $T_A = 25^{\circ}C$ DC Blocking voltage $T_A = 125^{\circ}C$	I _R	10 500						uA		

Notes: (1)Thermal resistance from Junction to Ambemt on P.C.board mounting.

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RATINGS AND CHARACTERISTIC CURVES

Fig. 1 Derating Curve for Output Rectified Current

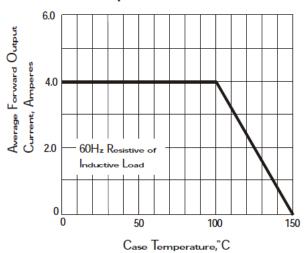


Fig. 2 Maximum Non-repetitive Peak Forward Surge Current

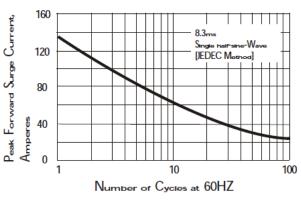


Fig. 3 Typical Instantaneous Forward Characteristics

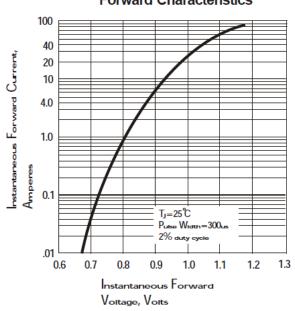
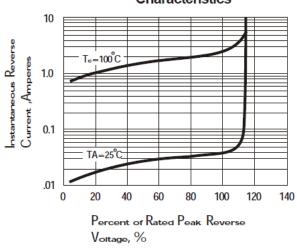


Fig. 4 Typical Reverse Characteristics



Note: Specifications are subject to change without notice.

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