



Glass Passivated BRIDGE Rectifiers

Voltage - 50 to 1000 Volts Current - 4.0 Amperes

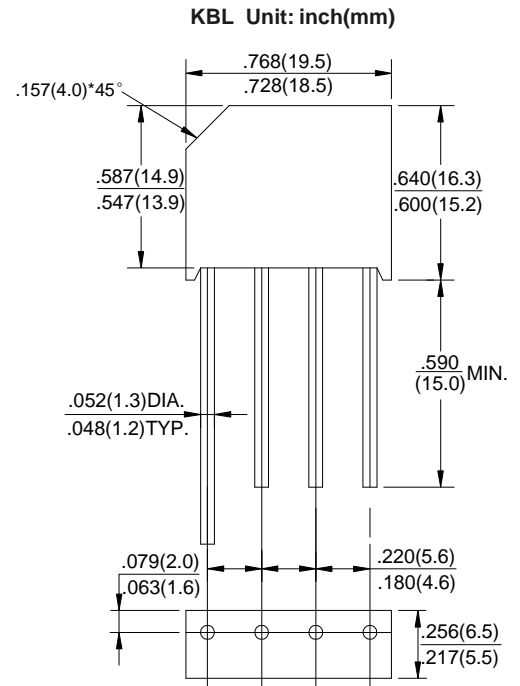


FEATURES

- Surge overload rating -120 Amperes peak
- Ideal for printed circuit board
- Plastic material has UL flammability classification 94V-0
- Mounting position :Any

MECHANICAL DATA

- Case: Molded plastic body
- Terminals: Leads solderable per MIL-STD-750, Method 2026



Maximum Ratings & Thermal Characteristics

(Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load)

Parameters	Symbol	KBL4005G	KBL401G	KBL402G	KBL404G	KBL406G	KBL408G	KBL410G	Unit
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
Maximum Average Forward Rectified Current (Note 1)	I _(AV)	4							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	120							A
Maximum Instantaneous Forward Voltage at 2.0A at 4.0A	V _F	1 1.1							V
Maximum DC Reverse Current Ta=25°C at Rated DC Blocking Voltage Ta=125°C	I _R	10 500							uA
Maximum Thermal Resistance	R _{θJA} R _{θJL}	19 2.4							°C/W
Operating Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C

Notes: 1. Mounted on PCB at 0.375" (9.5mm) lead length and 0.5*0.5" (12*12mm).

DEVICE CHARACTERISTICS

KBL4005G THRU KBL410G

Fig.1 Maximum Peak Forward Surge Current (Per Diode)

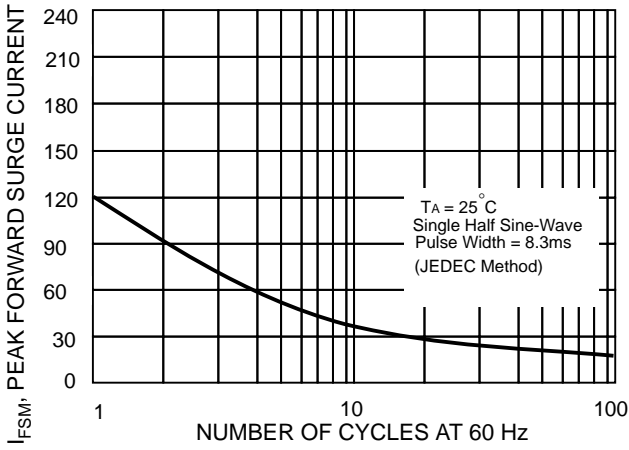


Fig.2 Derating Curve Output Rectified Current

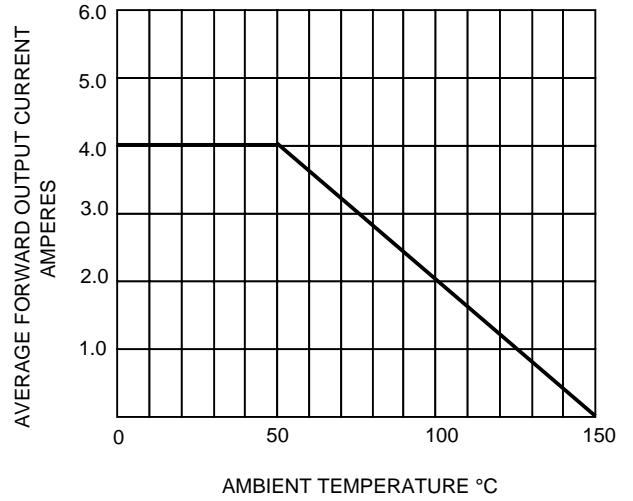


Fig. 3 Typical Forward Characteristics (Per Diode)

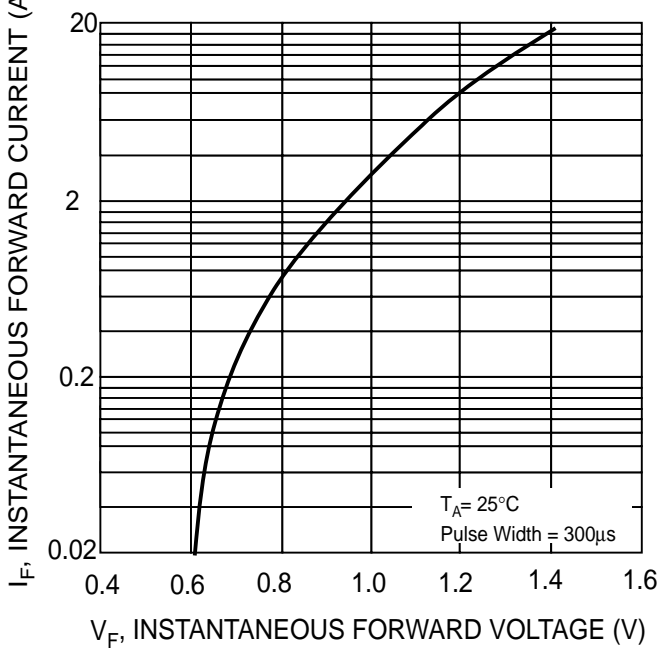


Fig.4 Typical Reverse Characteristics

