



Bridge Rectifier

■ **Features**

- I_o 4A
- V_{RRM} 50V~1000V
- Glass passivated chip
- High surge forward current capability

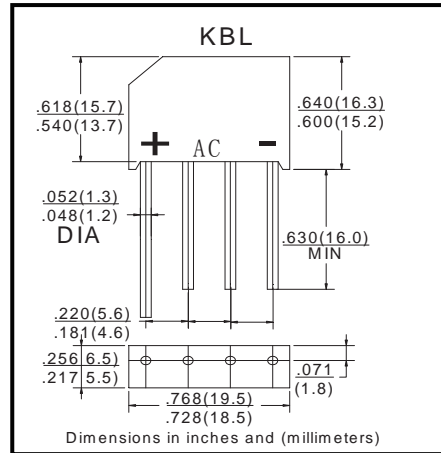
■ **Applications**

- General purpose 1 phase Bridge rectifier applications

■ **Limiting Values (Absolute Maximum Rating)**

Item	Symbol	Unit	Conditions	KBL4						
				005	01	02	04	06	08	10
Repetitive Peak Reverse Voltage	V_{RRM}	V		50	100	200	400	600	800	1000
Average Rectified Output Current	I_o	A	60Hz sine wave, R- load, $T_a=40^\circ\text{C}$	4						
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz sine wave, 1 cycle, $T_a=25^\circ\text{C}$	150						
Current Squared Time	I^2t	A^2s	$1\text{ms} \leq t < 8.3\text{ms}$ $T_j=25^\circ\text{C}$, Rating of per diode	93						
Storage Temperature	T_{STG}	$^\circ\text{C}$		-55 ~+150						
Junction Temperature	T_j	$^\circ\text{C}$		-55 ~+150						

■ **Outline Dimensions and Mark**



■ **Electrical Characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)**

Item	Symbol	Unit	Test Condition	Max
Peak Forward Voltage	V_{FM}	V	$I_{FM}=4\text{A}$, Pulse measurement. Rating of per diode	1.05
Peak Reverse Current	I_{RRM}	μA	$V_{RM}=V_{RRM}$, Pulse measurement, Rating of per diode	10
Thermal Resistance	$R_{\theta J-A}$	$^\circ\text{C/W}$	Between junction and ambient	13 ⁽¹⁾
	$R_{\theta J-L}$		Between junction and lead	2.4 ⁽²⁾

(Notes) :

(1) Thermal resistance from junction to ambient with units mounted on 3.0*3.0*0.11" thick(7.5*7.5*0.3cm) aluminum plate

(2) Thermal resistance from junction to lead with units mounted on P.C.B.at 0.375"(9.5mm)lead length and 0.5*0.5"(12*12mm) copper pads



RATINGS AND CHARACTERISTIC CURVES

($T_A = 25^\circ\text{C}$ unless otherwise noted)

