



Bridge Rectifier

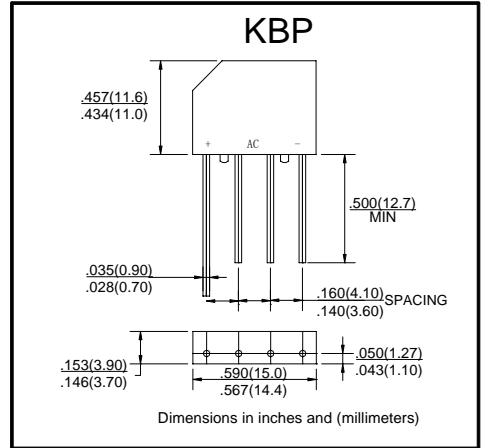
■ Features

- I_o 3A
- V_{RRM} 50V~1000V
- Glass passivated chip
- High surge forward current capability

■ Applications

- General purpose 1 phase Bridge rectifier applications

■ Outline Dimensions and Mark



■ Limiting Values(Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	KBP3						
				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, $T_a=30^\circ\text{C}$	3						
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz sine wave, 1 cycle, $T_a=25^\circ\text{C}$	80						
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	26.5						
Storage Temperature	T_{sig}	$^\circ\text{C}$		-55 ~+150						
Junction Temperature	T_j	$^\circ\text{C}$		-55 ~+150						

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

Item	Symbol	Unit	Test Condition	Max
Peak Forward Voltage	V_{FM}	V	$I_{FM}=3\text{A}$, Pulse measurement Rating of per diode	1.1
Peak Reverse Current	I_{RRM}	μA	$V_{RM}=V_{RRM}$, Pulse measurement, Rating of per diode	10
Thermal Resistance ⁽¹⁾	$R_{\theta\text{-}j\text{-}a}$	$^\circ\text{C}/\text{W}$	Between junction and ambient	20
	$R_{\theta\text{-}j\text{-}l}$		Between junction and lead	11

Notes :

(1) Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.47x0.47"(12x12mm) copper pads



■ Characteristics(Typical)

