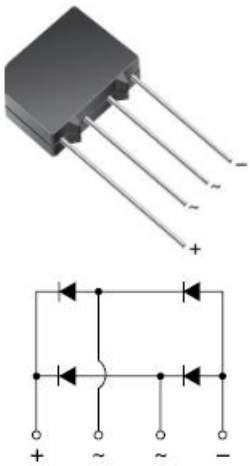
KBP Plastic-Encapsulate Bridge Rectifier

Features

- I_O 2.0A
- VRRM 50V-1000V
- High surge current capability
- Polarity: Color band denotes cathode

KBP



Applications

- General purpose 1 phase Bridge rectifier applications

Marking

- K BP2XX

XX : From 005 To 10

Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	KBP2						
				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℃	2						
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz sine wave, 1 cycle, T_a=25℃	60						
Current Squared Time	I^2t	A^2s	1ms≤t＜8.3ms T_j=25℃,Rating of per diode	15						
Storage Temperature	T_{stg}	℃		-55 ~+150						
Junction Temperature	T_j	℃		-55 ~+150						

Electrical Characteristics（T_a=25℃ Unless otherwise specified）

Item	Symbol	Unit	Test Condition	Max
Peak Forward Voltage	V_{FM}	V	I_{FM}=2A, 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)	$R_{\theta J-A}$	℃/W	Between junction and ambient	30
	$R_{\theta J-L}$		Between junction and lead	11

Notes）:

（1）Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.47×0.47”(12×12mm) copper pads

■ Typical Characteristics

FIG1:Io-Ta Curve

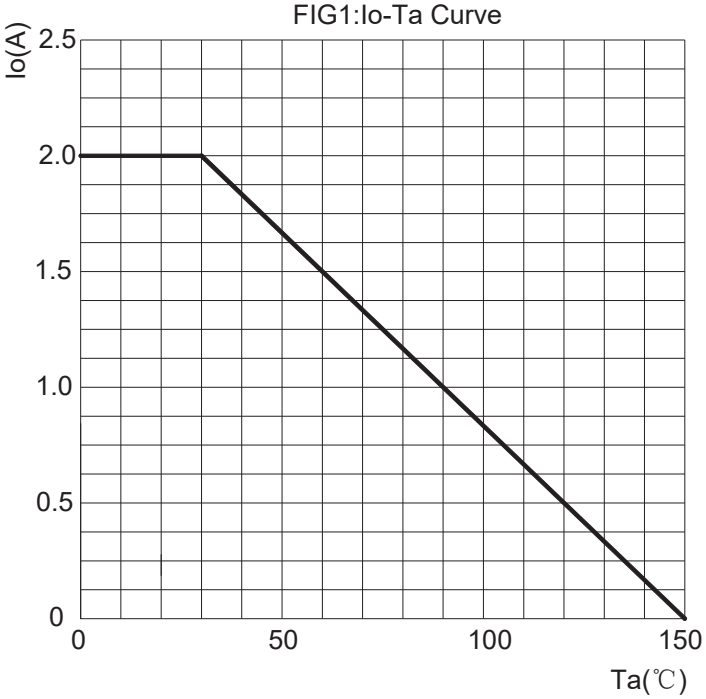


FIG2:Surge Forward Current Capadility

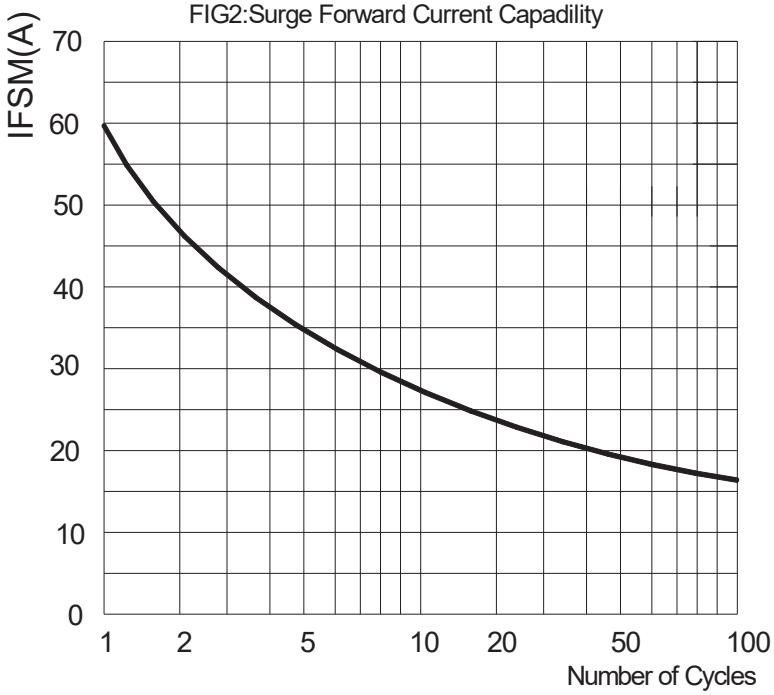


FIG3:Instantaneous Forward Voltage

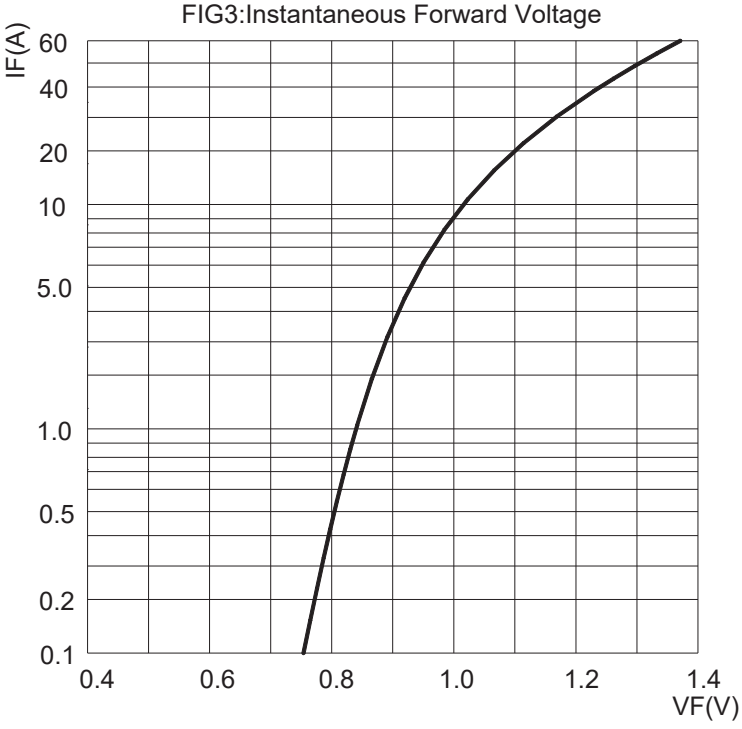
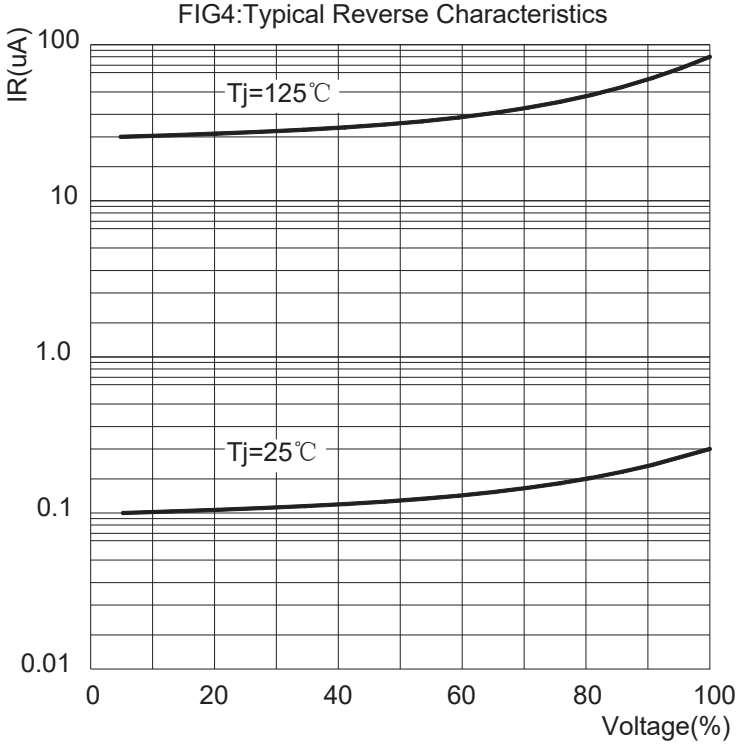
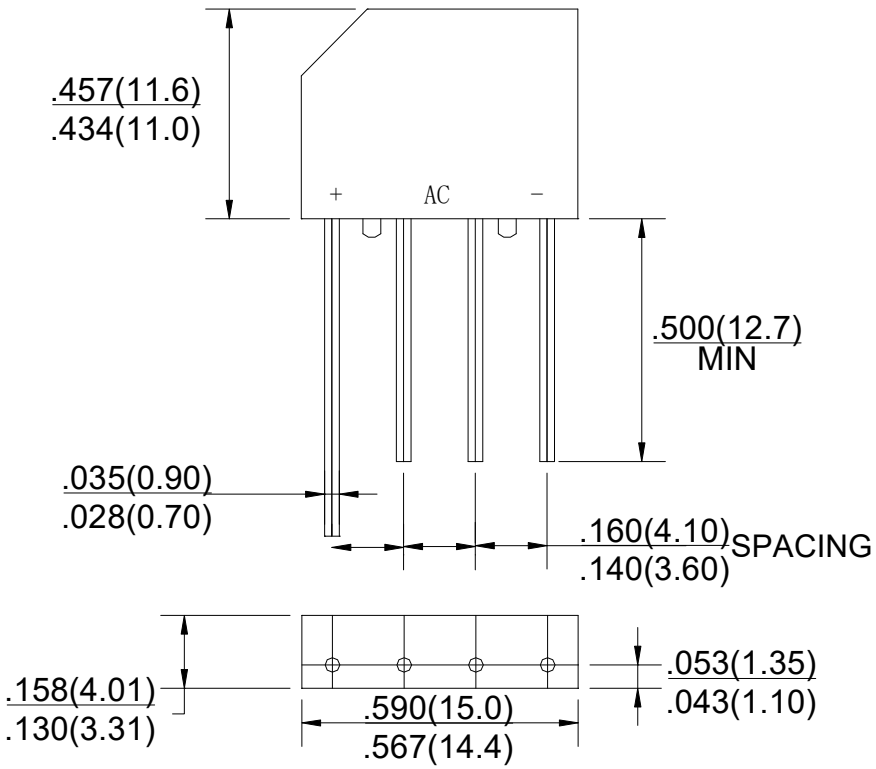


FIG4:Typical Reverse Characteristics



▪ KBP Package Outline Dimensions



Dimensions in inches and (millimeters)