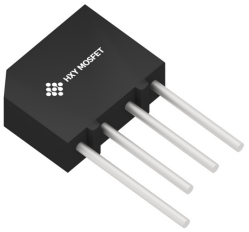
2KBP06M_B0_10001

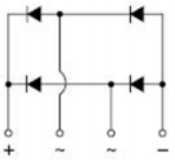
Plastic-Encapsulate Bridge Rectifier

Features

- This series is UL listed under the Recognized Component Index, file number E142814
- 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 265°C/10 seconds at 5 lbs (2.3kg) tension



KBP
(KBPM)



Ordering Information

Product ID	Pack	Qty(PCS)
2KBP06M_B0_10001	KBP	500

Maximum Ratings (Ta=25°C unless otherwise noted)

Parameter	Symbol	2KBP06M_B0_10001	Unit
Maximum repetitive peak reverse voltage	VRRM	600	V
Maximum RMS bridge input voltage	VRMS	420	V
Maximum DC blocking voltage	VDC	600	V
Maximum average forward rectified output current at TA=50°C	IF(AV)	2.0	A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	IFSM	60	A
Rating for fusing (t<8.3ms)	I^2t	15.0	A^2sec
Typical thermal resistance per element (1)	ReJA	10.0	°C / W
Typical junction capacitance per element (2)	Cj	25.0	pF
Operating junction and storage temperature range	TJ, TSTG	-55 to + 150	°C

Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified. Resistive or Inductive 60Hz load, For Capacitive load derate by 20 %.

Parameter	Symbol	2KBP06M_B0_10001	Unit
Maximum instantaneous forward voltage drop per leg at 2.0A	VF	1.1	V
Maximum DC reverse current at rated DC blocking voltage per element TA =25°C TA =125°C	IR	10 500	μA

Notes: (1)Thermal resistance from Junction to Ambemt on P.C.board mounting.
(2)Measured at 2.0MHz and applied reverse voltage of 4.0 volts.

Rating and Characteristic Curves (T_A=25°C unless otherwise noted)

Fig. 1 Derating Curve for Output Rectified Current

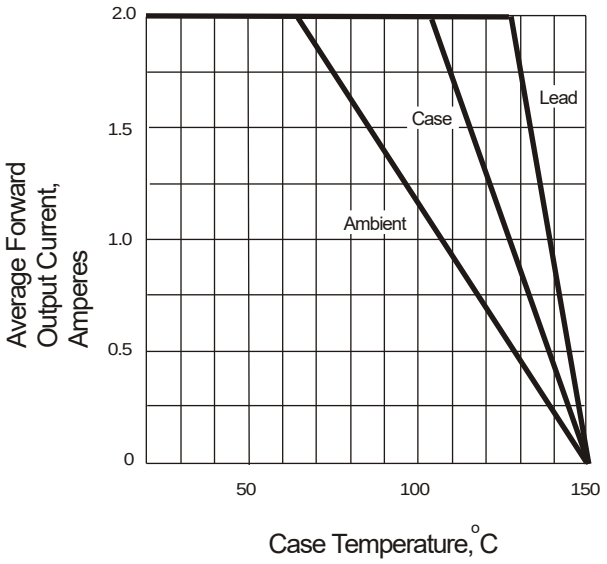


Fig. 2 Maximum Non-repetitive Peak Forward Surge Current

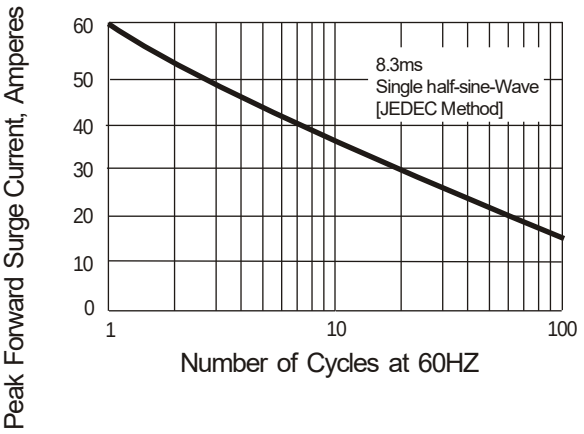


Fig. 3 Typical Instantaneous Forward Characteristics

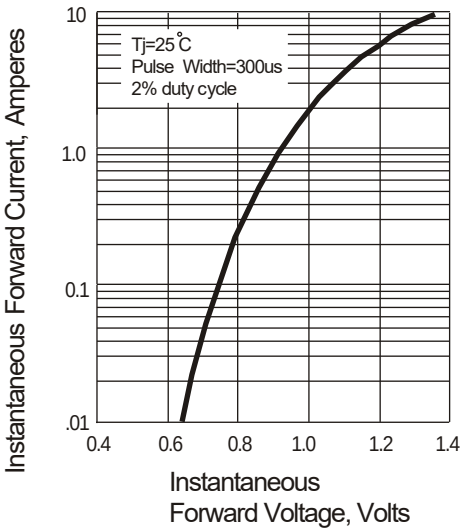


Fig. 4 Typical Reverse Characteristics

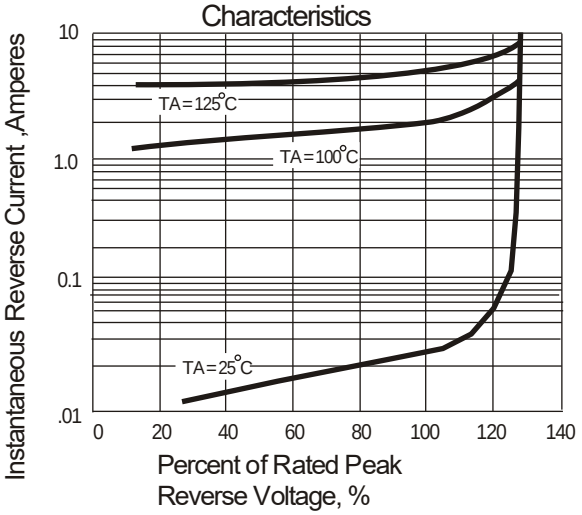
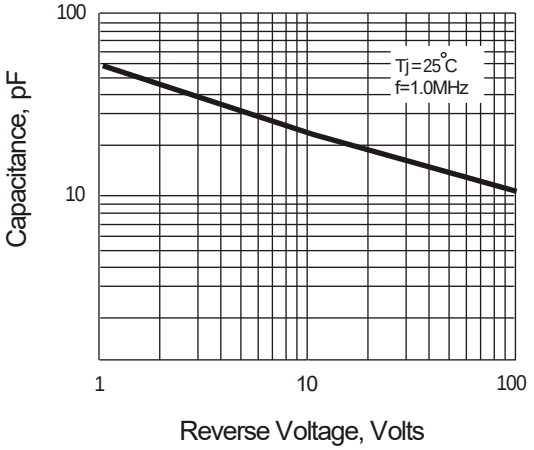
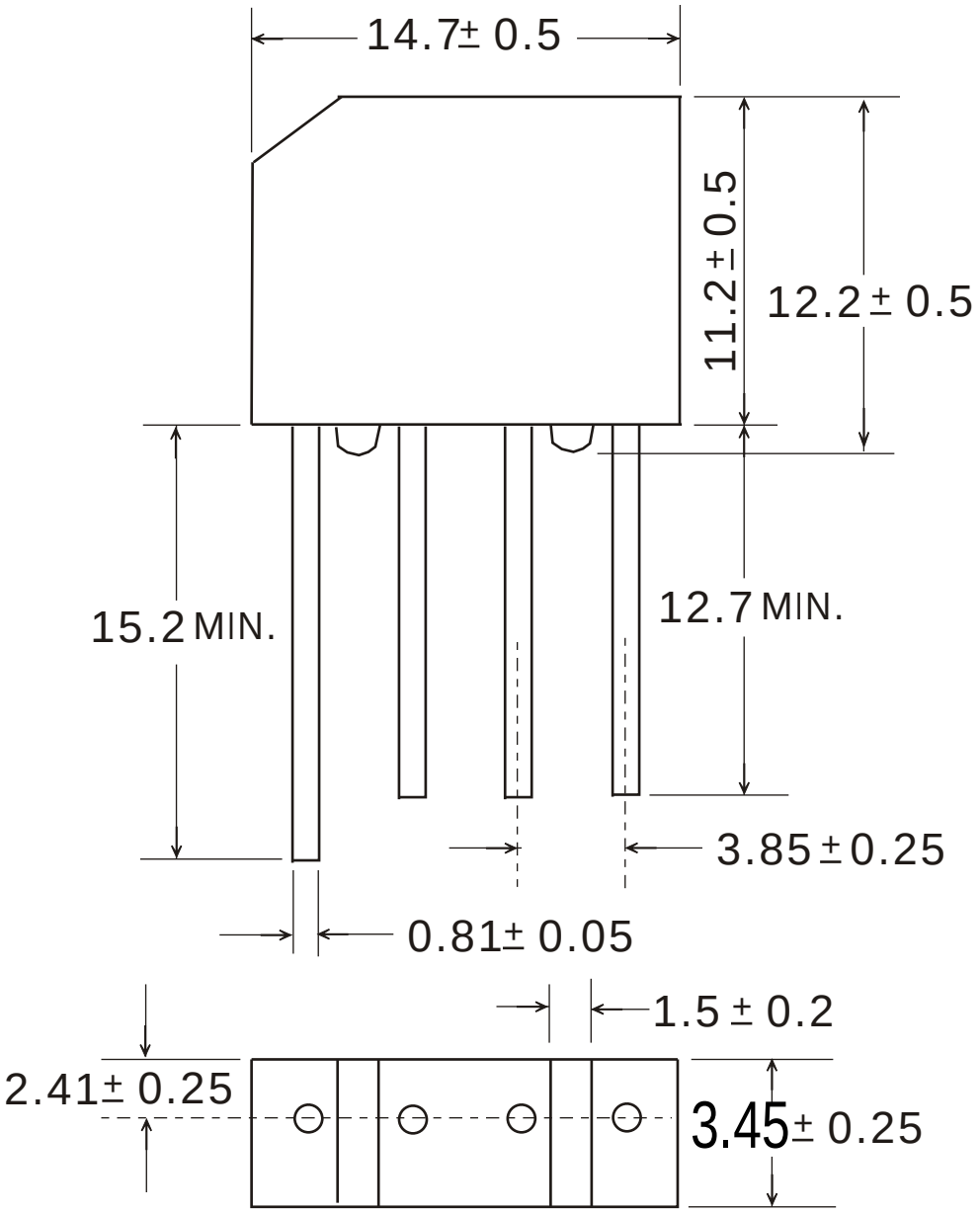


Fig. 5 Typical Junction Capacitance



KBP(KBPM) Package Outline Dimensions



Dimensions in millimeters(1mm =0.0394")

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