

KBP005M - KBP10M

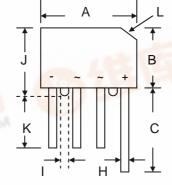


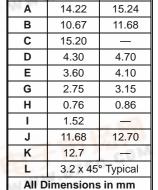
Max

1.5A GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

Features

- Glass Passivated Die Construction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards
- Recognized File # E157705





KBPM

Min

Dim

Mechanical Data

- Case: KBPM, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Body
- Weight: 1.7 grams (approx.)
- Mounting Position: Any
- Marking: Type Number
- Lead Free: For RoHS / Lead Free Version,
 Add "-LF" Suffix to Part Number, See Page 4

Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	KBP 005M	KBP 01M	KBP 02M	KBP 04M	KBP 06M	KBP 08M	KBP 10M	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current @T _A = 50°C	lo				1.5		•		Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM				50	10	77	5场	А
Forward Voltage per leg @I _F = 1.5A	VFM				1.3	THE	O. Mar.	Zec.	V
$ \begin{array}{lll} \mbox{Peak Reverse Current} & \mbox{@T}_{\mbox{\scriptsize A}} = 25^{\circ}\mbox{C} \\ \mbox{At Rated DC Blocking Voltage} & \mbox{@T}_{\mbox{\scriptsize A}} = 125^{\circ}\mbox{C} \\ \end{array} $	lкм	6	392	118	5.0 500	- W			μA
Rating for Fusing (t<8.3ms)	l ² t		1827		10				A ² s
Typical Junction Capacitance per leg (Note 1)	Cj				15				pF
Typical Thermal Resistance per leg (Note 2)	RθJA RθJL				40 13				°C/W
Operating and Storage Temperature Range	Tj, TsTG			-:	55 to +15	50			°C

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

2. Mounted on PC board with 12mm² copper pad.

KBP005M – KBP10M 1 of 4 © 2006 Won-Top Electronics

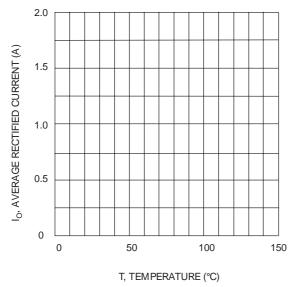
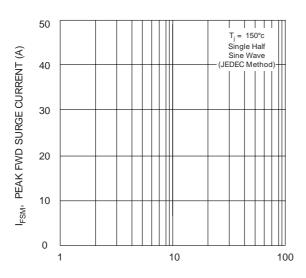


Fig. 1 Forward Current Derating Curve



NUMBER OF CYCLES AT 60 Hz Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

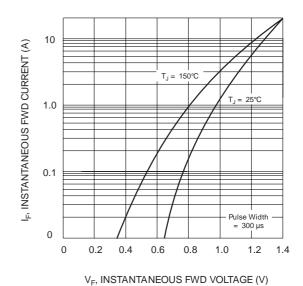
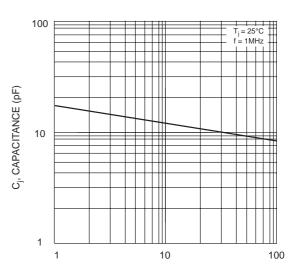


Fig. 2 Typical Fwd Characteristics



V_R, REVERSE VOLTAGE (V)

Fig. 4 Typical Junction Capacitance

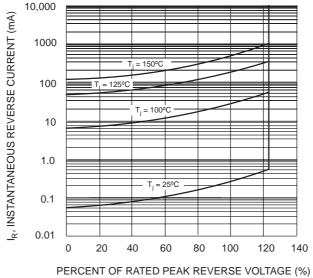
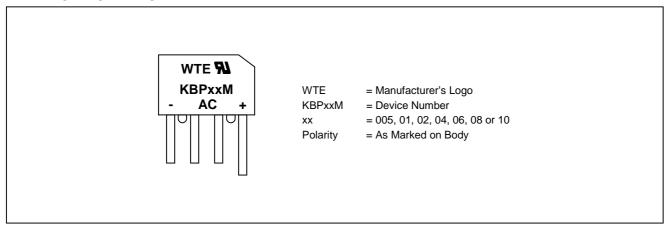


Fig. 5 Typical Reverse Characteristics

MARKING INFORMATION



PACKAGING INFORMATION

BULK

Inner Box Size	Quantity	Carton Size	Quantity	Approx. Gross Weight (KG)
L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	
200 x 160 x 42	600	425 x 215 x 280	7,200	17.0

Note: 1. Paper box, white or brown color.

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
KBP005M	SIL Bridge	600 Units/Box
KBP01M	SIL Bridge	600 Units/Box
KBP02M	SIL Bridge	600 Units/Box
KBP04M	SIL Bridge	600 Units/Box
KBP06M	SIL Bridge	600 Units/Box
KBP08M	SIL Bridge	600 Units/Box
KBP10M	SIL Bridge	600 Units/Box

- Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
- To order Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, KBP005M-LF.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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KBP005M – KBP10M 4 of 4 © 2006 Won-Top Electronics