

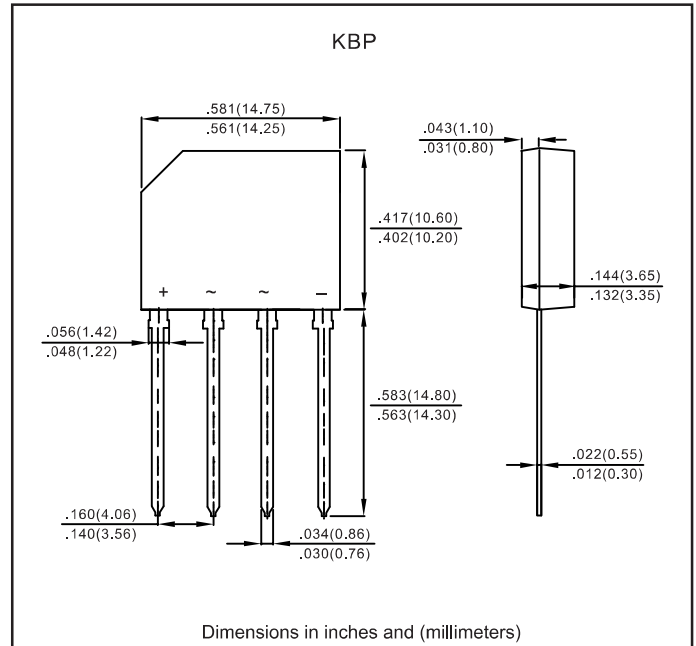
Features

- Surge overload ratings to 60 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction technique
- Lead-free parts for green partner, meet RoHS requirements
- UL recognized file # E321971.
- Suffix "-H" indicates Halogen free parts, ex. KBP2005 -H.

Mechanical data

- Case: Potted plastic round body KBP
- Epoxy: UL94-V0 rated flame retardant
- Terminals: Solderable per MIL-STD-750 Method 2026
- Polarity: As marked
- Mounting Position: Any

Package outline



Maximum ratings and Electrical Characteristics (AT $T_A=25^\circ\text{C}$ unless otherwise noted)

PARAMETER	CONDITIONS	Symbol	MIN.	TYP.	MAX.	UNIT
Forward rectified current	See Fig.1	I_O			2.0	A
Forward surge current	8.3ms single half sine-wave (JEDEC methode)	I_{FSM}			60	A
Reverse current	$V_R = V_{RRM} T_J = 25^\circ\text{C}$	I_R			5.0	uA
	$V_R = V_{RRM} T_J = 125^\circ\text{C}$				500	
I^2t Rating for fusing	$t < 8.3$ ms	I^2t			15	A^2s
Storage temperature		T_{STG}	-65		+175	$^\circ\text{C}$

SYMBOLS	V_{RRM}^{*1} (V)	V_{RMS}^{*2} (V)	V_R^{*3} (V)	V_F^{*4} (V)	Operating temperature T_J , ($^\circ\text{C}$)
KBP2005	50	35	50	1.10	-55 to +150
KBP201	100	70	100		
KBP202	200	140	200		
KBP204	400	280	400		
KBP206	600	420	600		
KBP208	800	560	800		
KBP210	1000	700	1000		

*1 Repetitive peak reverse voltage

*2 RMS voltage

*3 Continuous reverse voltage

*4 Maximum forward voltage @ $I_F=2.0\text{A}$

Rating and characteristic curves (KBP2005 THRU KBP210)

FIG.1-DERATING CURVE
OUTPUT RECTIFIED CURRENT

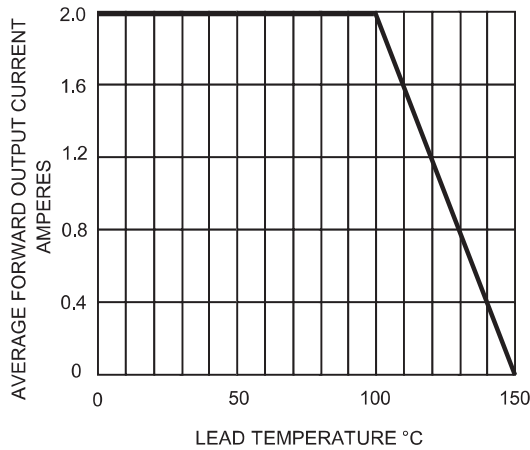


FIG.2-TYPICAL FORWARD CHARACTERISTICS

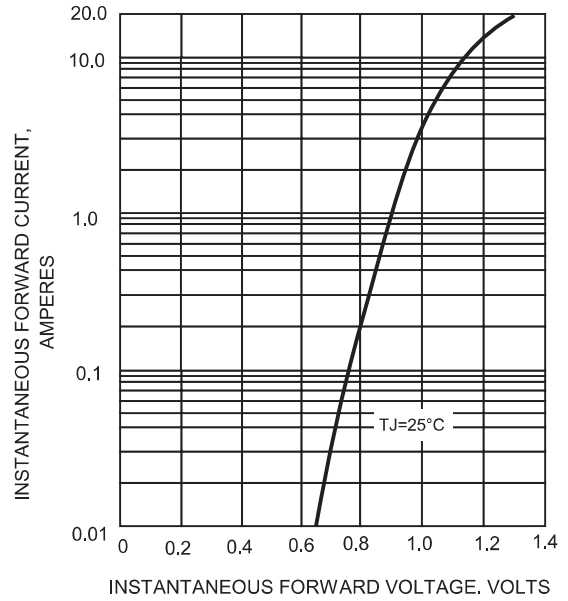


FIG.3-TYPICAL REVERSE CHARACTERISTICS

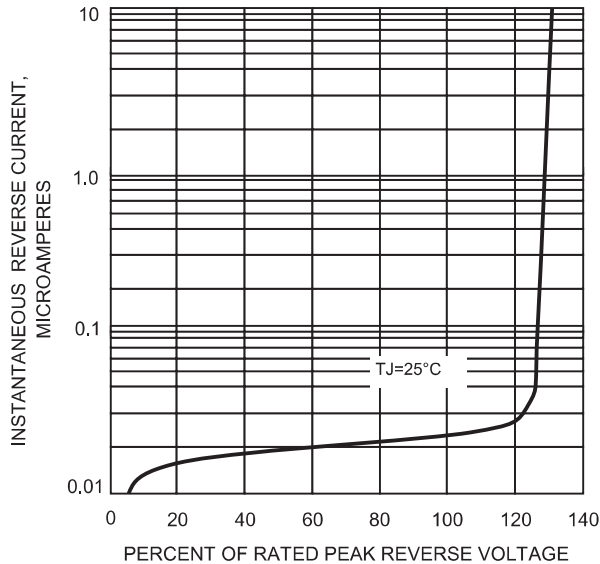
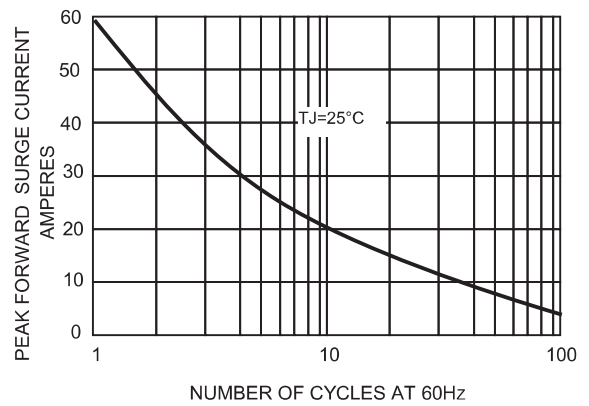
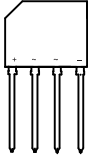
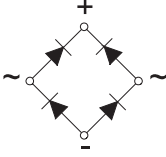


FIG.4-MAXIMUM FORWARD SURGE CURRENT



Pinning information

Simplified outline	Symbol
	

Marking

Type number	Marking code
KBP2005	KBP2005
KBP201	KBP201
KBP202	KBP202
KBP204	KBP204
KBP206	KBP206
KBP208	KBP208
KBP210	KBP210

Tube packing

PACKAGE	TUBE (pcs)	TUBE SIZE (m/m)	BOX (pcs)	INNER BOX (m/m)	CARTON SIZE (m/m)	CARTON (pcs)	APPROX. GROSS WEIGHT (kg)
KBP	30	470*37.4*7.4	1,200	490*145*85	505*325*195	4,800	9.2

Bulk packing

PACKAGE	BOX (pcs)	INNER BOX (m/m)	CARTON SIZE (m/m)	CARTON (pcs)	APPROX. GROSS WEIGHT (kg)
KBP	500	180*180*35	390*190*200	5,000	11.4

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