

KBP2005 THRU KBP210



Bridge Rectifiers

Reverse Voltage - 50 to 1000 Volts

Forward Current - 2.0 Amperes

RoHS Device

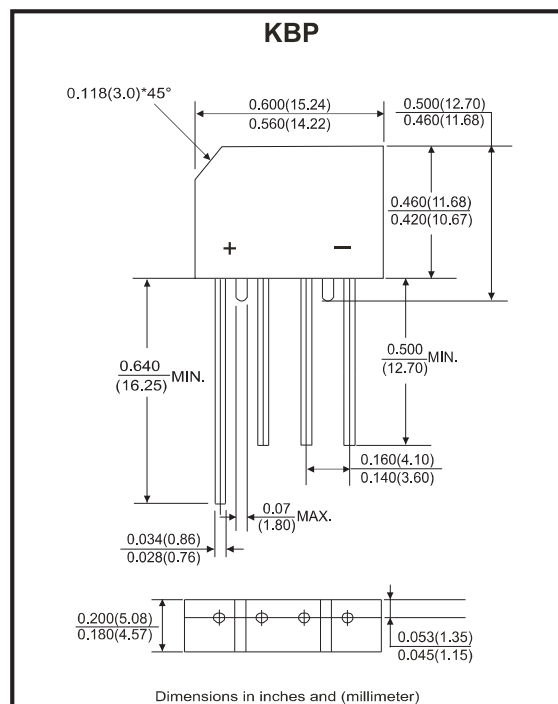


Features

- Surge overload rating -60 amperes peak.
- Ideal for printed circuit board.

Mechanical Data

- Case: Molded plastic body over passivated junctions.
- Epoxy: UL 94V-0 rate flame retardant.
- Polarity: Polarity symbols marked on case.
- Mounting position: Any



Maximum ratings and electrical characteristics

Rating at 25°C ambient temperature unless otherwise specified.
Single phase, half wave ,60Hz, resistive or inductive load.
For capacitive load, derate current by 20%

Parameter	Symbol	KBP 2005	KBP 201	KBP 202	KBP 204	KBP 206	KBP 208	KBP 210	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Output Current @ $T_A=50^{\circ}C$	I_{AV}	2.0							A
Peak Forward Surge Current , 8.3ms Single Half Sine-Wave Super Imposed On Rated Load	I_{FSM}	60							A
Maximum Forward Voltage Drop Per Bridge Element at 2.0A Peak	V_F	1.1							V
Maximum Reverse Current at Rated DC Blocking Voltage Per Element	I_R	10.0							μA
Maximum Reverse Current at Rated DC Blocking Voltage Per Element @ $T_J=100^{\circ}C$	I_R	1.0							mA
Operating Temperature Range	T_J	-55 to +150							$^{\circ}C$
Storage Temperature Range	T_{STG}	-55 to +150							$^{\circ}C$

Rating and Characteristics Curves

Fig.1 - Derating Curve Output Rectified Current

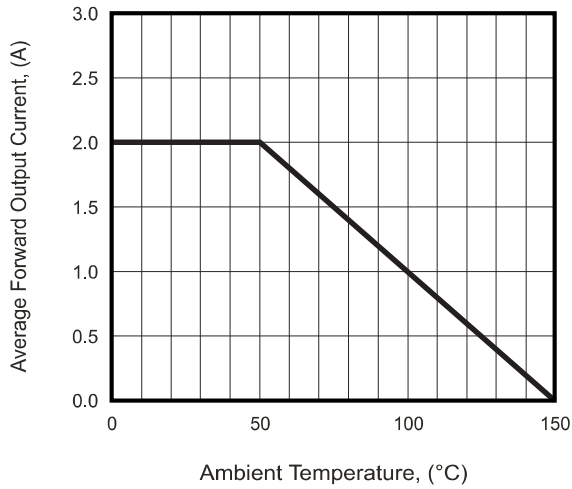


Fig.2 - Max. Forward Surge Current

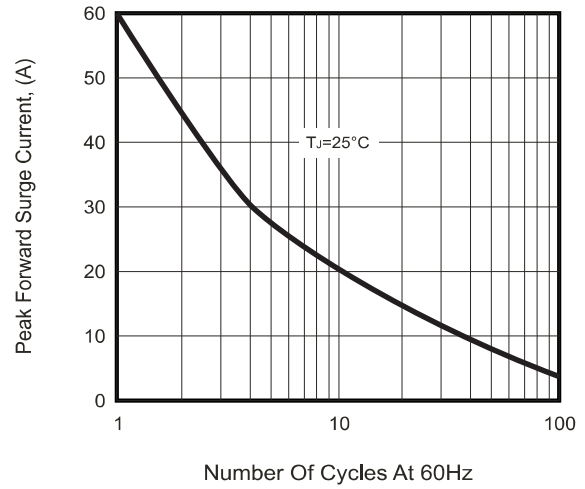


Fig.3 - Typical Forward Characteristics

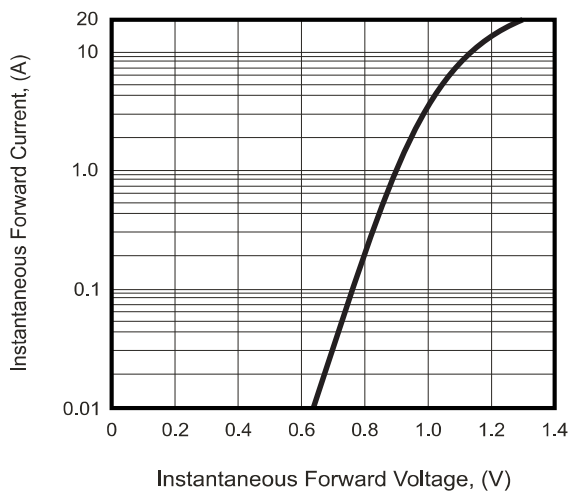
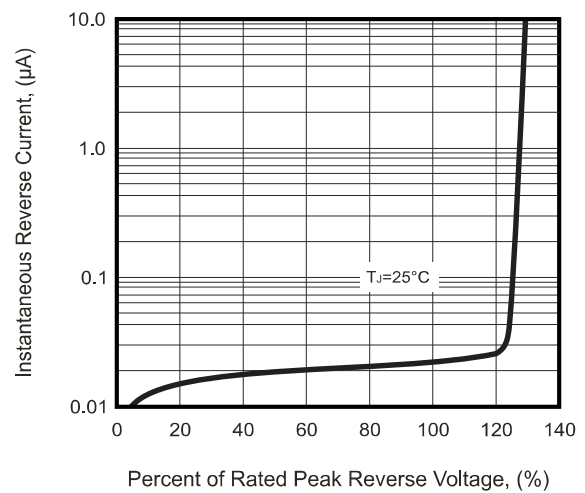
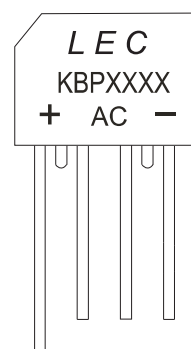


Fig.4 - Typical Reverse Characteristics



Marking Code

Part Number	Marking code	Packaging
KBP2005B	KBP2005	BULK
KBP201B	KBP201	BULK
KBP202B	KBP202	BULK
KBP204B	KBP204	BULK
KBP206B	KBP206	BULK
KBP208B	KBP208	BULK
KBP210B	KBP210	BULK
KBP2005P	KBP2005	TUBE
KBP201P	KBP201	TUBE
KBP202P	KBP202	TUBE
KBP204P	KBP204	TUBE
KBP206P	KBP206	TUBE
KBP208P	KBP208	TUBE
KBP210P	KBP210	TUBE



XXX / XXXX = Product type marking code
LEC = Longmacro Logo

Note:

1) Suffix code after part number to specify packaging item .

Packaging	Code
BULK PACK	B
TUBE PACK	P

Standard Packaging

Case Type	BULK PACK	
	BOX (pcs)	CARTON (pcs)
KBP	500	5,000

Case Type	TUBE PACK	
	TUBE (pcs)	BOX (pcs)
KBP	30	1,200