

KBP3005~KBP310

BRIDGE RECTIFIERS

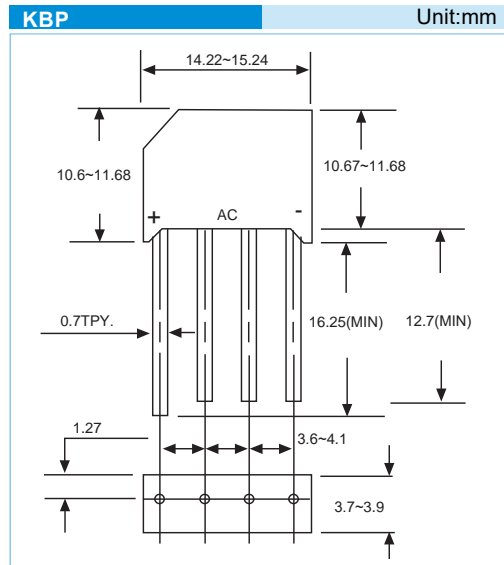
VOLTAGE 50 to 1000 Volt **CURRENT** 3 Ampere

FEATURES

- High forward surge current capability
- Low reverse leakage
- High reliability
- Lead free in compliance with EU RoHS

MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	KBP3005	KBP301	KBP302	KBP304	KBP306	KBP308	KBP310	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS 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 Current (see FIG.1)	$I_{F(AV)}$	3							A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	80							A
Maximum Forward Voltage at 1.5 A	V_F	1.10							V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	10 1							μA mA
Thermal Resistance	$R_{\theta JA}$	30							$^{\circ}C / W$
Operating Junction Temperature Range	T_J	-55 to +150							$^{\circ}C$
Storage Temperature Range	T_{STG}	-55 to +150							$^{\circ}C$

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RATING AND CHARACTERISTIC CURVES

Fig. 1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

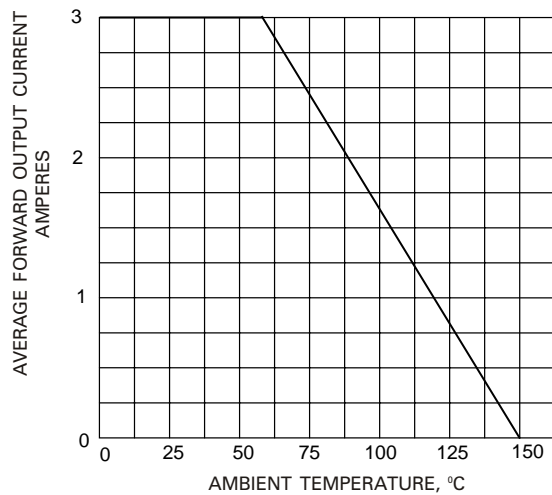


Fig. 2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

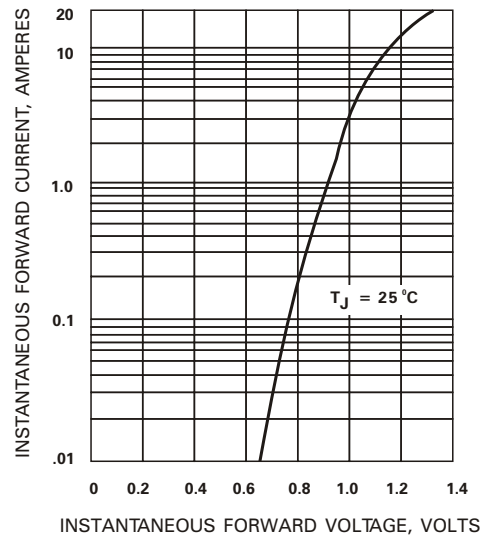


Fig. 3 - TYPICAL FORWARD CHARACTERISTICS

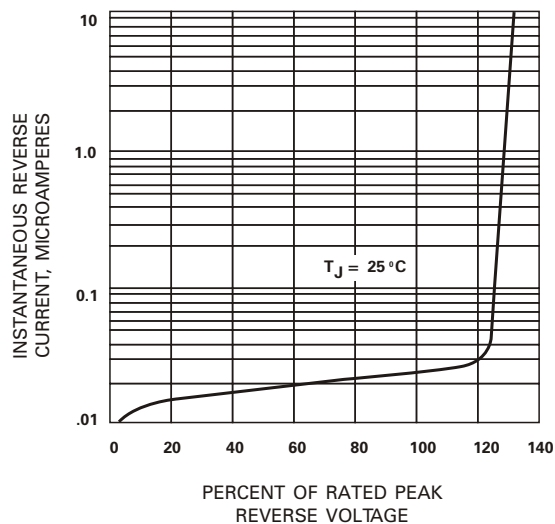
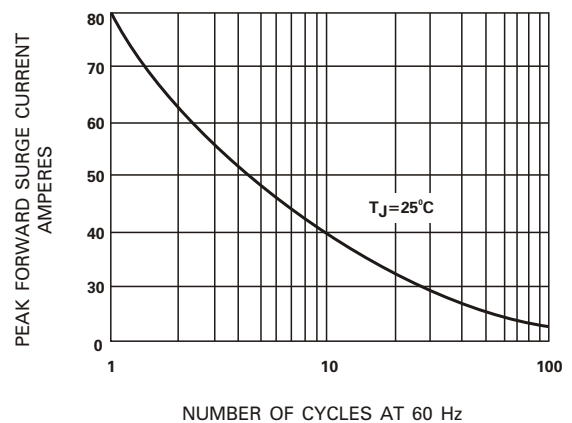


Fig. 4 - MAXIMUM FORWARD SURGE CURRENT



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ORDER INFORMATION

- Packing information

Part Number	Case	DELIVERY MODE	QUANTITY
KBP3005~KBP310	KBP	BULK	5000/Ctn