

# KBP005M~KBP10M

## BRIDGE RECTIFIERS

**VOLTAGE** 50 to 1000 Volt **CURRENT** 1.5Ampere

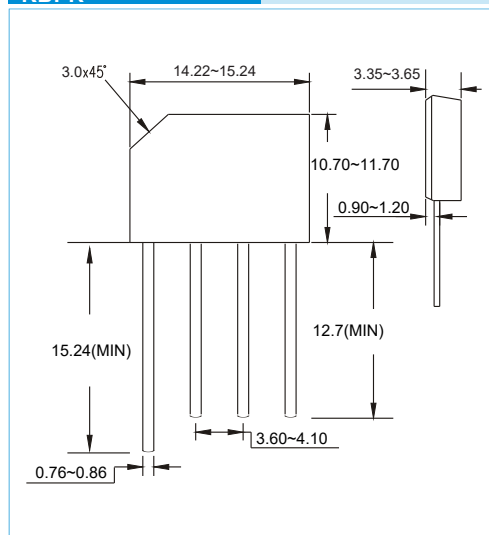
**KBPR** Unit:mm

### FEATURES

- Glass Passivated Die Construction
- 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

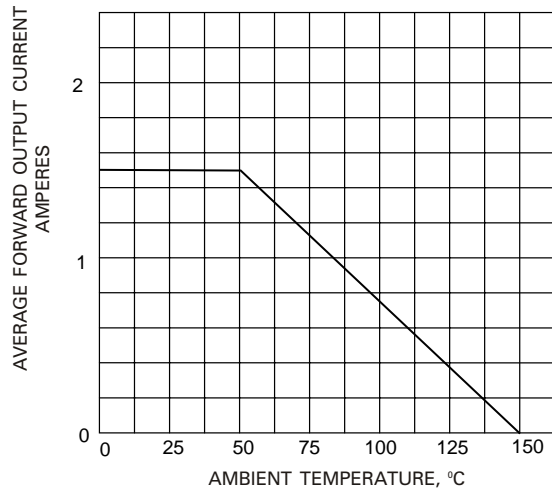
Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	KBP005M	KBP01M	KBP02M	KBP04M	KBP06M	KBP08M	KBP10M	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)	$I_{F(AV)}$				1.5				A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$				50				A
Maximum Forward Voltage at 1.5 A	$V_F$				1.10				V
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$				10 500				$\mu A$
Thermal Resistance	$R_{\theta JA}$				28				$^{\circ}C / W$
Operating Junction Temperature Range	$T_J$				-55 to +150				$^{\circ}C$
Storage Temperature Range	$T_{STG}$				-55 to +150				$^{\circ}C$

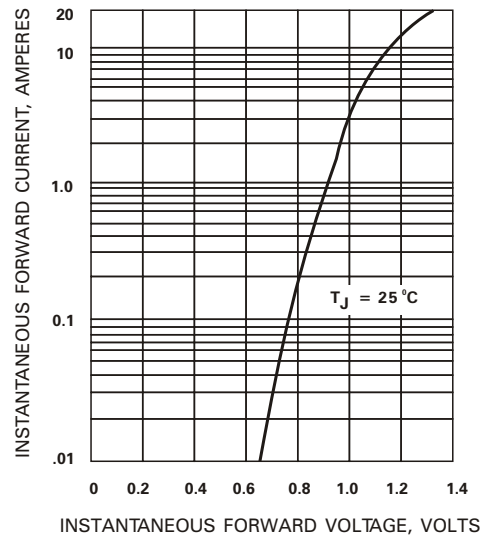
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## RATING AND CHARACTERISTIC CURVES

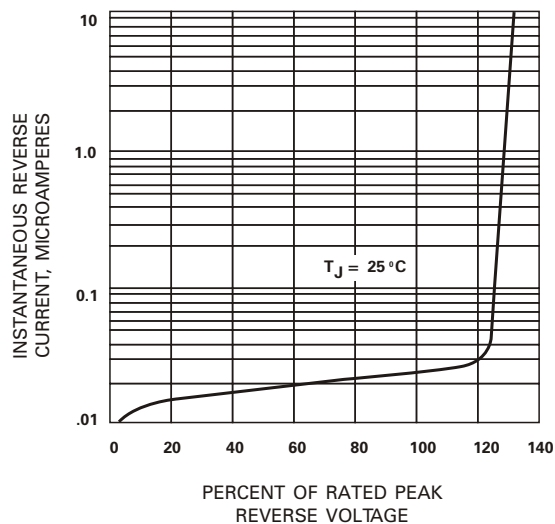
**Fig. 1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT**



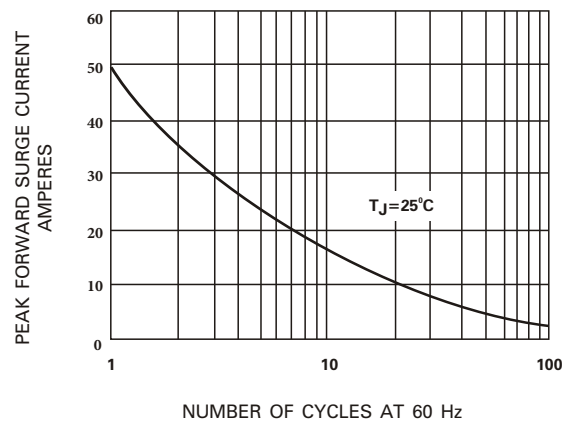
**Fig. 2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT**



**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
KBP005M~KBP10M	KBPR	BULK	5000/Ctn