

# KBL005 - KBL10 Bridge Rectifiers

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## Features

- · Ideal for printed circuit board .
- Reliable low cost construction.
- High surge current capability.
- UL certified, UL #E326243.



## Absolute Maximum Ratings \* T<sub>A</sub> = 25 °C unless otherwise noted

Symbol	Parameter	Value							Units
		005	01	02	04	06	08	10	Units
V <sub>RRM</sub>	Maximum Repetitive Reverse Voltage	50	100	200	400	600	800	1000	V
V <sub>RMS</sub>	Maximum RMS Bridge Input Voltage	35	70	140	280	420	560	700	V
V <sub>R</sub>	DC Reverse Voltage (Rated V <sub>R</sub> )	50	100	200	400	600	800	1000	V
I <sub>F(AV)</sub>	Average Recitified Forward Current, @ T <sub>A</sub> = 50°C	4.0			Α				
I <sub>FSM</sub>	Non-Repetitive Peak Forward Surge Current 8.3ms Single Half-Sine-Wave	200			A				
T <sub>STG</sub>	Storage Temperature Range	-55 to +150		°C					
ТJ	Operating Junction Temperature	-55 to +150		°C					

\* These ratings are limiting values above which the serviceability of any semiconductor device may by impaired.

## **Thermal Characteristics**

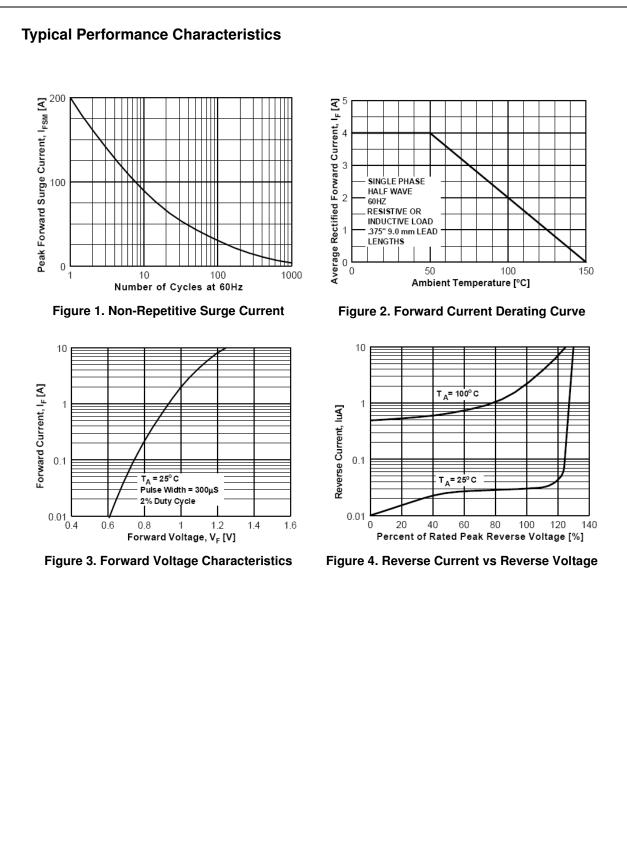
Symbol	Parameter	Value	Units
PD	Power Dissipation	6.58	W
$R_{\thetaJA}$	Thermal Resistance, Junction to Ambient, * per leg	19	°C/W
R <sub>θJL</sub>	Thermal Resistance, Junction to Lead, * per leg	2.4	°C/W

\* Device mounted on PCB with 0.375 " (9.5 mm) lead length and 0.5 x 0.5" (13 x 13 mm) copper pads.

## **Electrical Characteristics** $T_A = 25 \,^{\circ}C$ unless otherwise noted

Symbol	Parameter	Value	Units
V <sub>F</sub>	Forward Voltage, per bridge @ 4.0A	1.1	V
I <sub>R</sub>	Reverse Current, total bridge @ Rated V <sub>R</sub> $T_A = 25^{\circ}C$ $T_A = 100^{\circ}C$	5.0 500	μΑ μΑ

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