

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_A = 25 °C unless otherwise noted

Symbol	Parameter	Value							Units
		005	01	02	04	06	08	10	Units
V _{RRM}	Maximum Repetitive Reverse Voltage	50	100	200	400	600	800	1000	V
V _{RMS}	Maximum RMS Bridge Input Voltage	35	70	140	280	420	560	700	V
V _R	DC Reverse Voltage (Rated V _R)	50	100	200	400	600	800	1000	V
I _{F(AV)}	Average Recitified Forward Current, @ T _A = 50°C	4.0			Α				
I _{FSM}	Non-Repetitive Peak Forward Surge Current 8.3ms Single Half-Sine-Wave	200			A				
T _{STG}	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

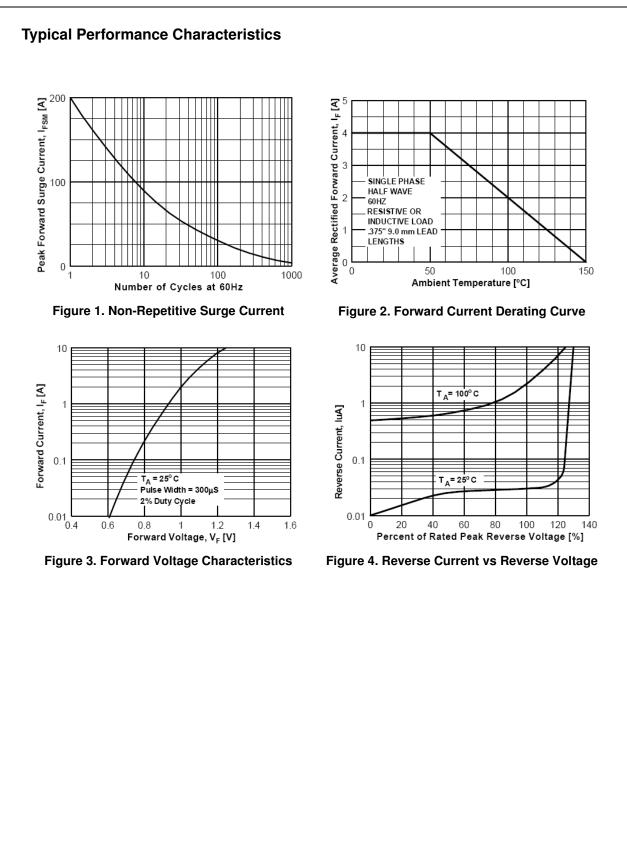
Symbol	Parameter	Value	Units
PD	Power Dissipation	6.58	W
R_{\thetaJA}	Thermal Resistance, Junction to Ambient, * per leg	19	°C/W
R _{θJL}	Thermal Resistance, Junction to Lead, * per leg	2.4	°C/W

* 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 _F	Forward Voltage, per bridge @ 4.0A	1.1	V
I _R	Reverse Current, total bridge @ Rated V _R $T_A = 25^{\circ}C$ $T_A = 100^{\circ}C$	5.0 500	μΑ μΑ

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