

# **Excellent Integrated System Limited**

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Fairchild Semiconductor KBL06

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**Distributor of Fairchild Semiconductor: Excellent Integrated System Limited** Datasheet of KBL06 - IC BRIDGE RECT 4A 600V KBL Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



## KBL005 - KBL10

#### Features

- Ideal for printed circuit board .
- Reliable low cost construction.
- High surge current capability.
- UL certified, UL #E96005.



## **Bridge Rectifiers**

Absolute Maximum Ratings*	$T_{A} = 25^{\circ}C$ unless otherwise noted
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Symbol	Parameter	Value						Units	
-		005	01	02	04	06	08	10	
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> )	50 100 200 400 600 800 100		1000	V				
I <sub>F(AV)</sub>	Average Rectified Forward Current, @ $T_A = 50^{\circ}C$	4.0		Α					
I <sub>FSM</sub>	Non-repetitive Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave	200		А					
T <sub>stg</sub>	Storage Temperature Range	-55 to +150		°C					
TJ	Operating Junction Temperature	-55 to +150		°C					

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

### **Thermal Characteristics**

Symbol	Parameter	Value	Units
P <sub>D</sub>	Power Dissipation	6.58	W
R <sub>eJA</sub>	Thermal Resistance, Junction to Ambient,* per leg	19	°C/W
$R_{_{ ext{ ext{ ext{ ext{ ext{ ext{ ext{ ext$	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<sub>A</sub> = 25°C unless otherwise noted

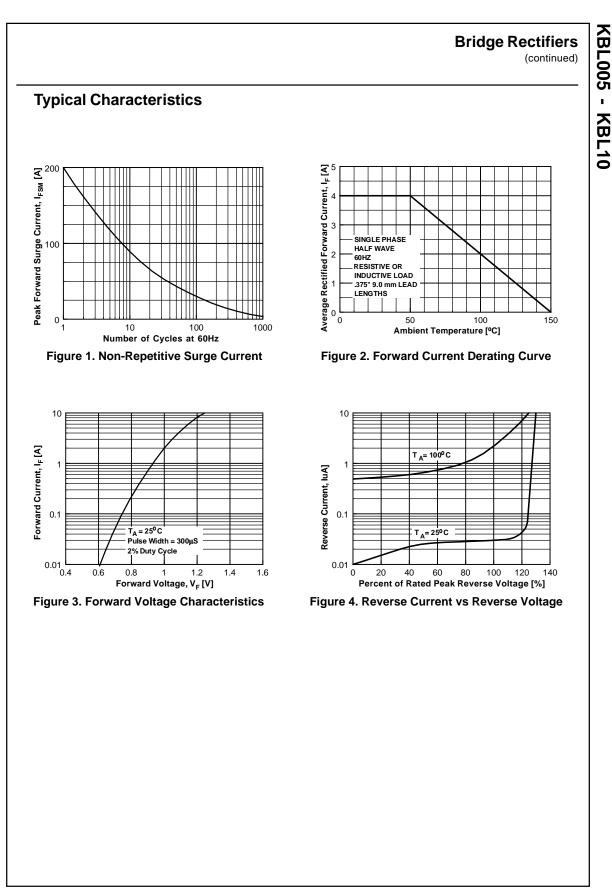
S	ymbol	Parameter	Device	Units
	V <sub>F</sub>	Forward Voltage, per bridge @ 4.0 A	1.1	V
	I <sub>R</sub>	Reverse Current, total bridge @ rated $V_R$ $T_A = 25^{\circ}C$ $T_A = 100^{\circ}C$	5.0 500	μΑ μΑ

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KBL005-KBL10, Rev. C1

KBL005 - KBL10





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