

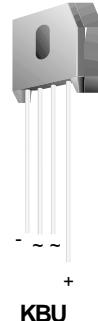


# KBU4A - KBU4M

**KBU4A - KBU4M**

## Features

- High surge current capability.
- Reliable construction technique.
- Ideal for printed circuit board.



## Bridge Rectifiers

### Absolute Maximum Ratings\*

$T_A = 25^\circ\text{C}$  unless otherwise noted

Symbol	Parameter	Value							Units
		4A	4B	4D	4G	4J	4K	4M	
$V_{RRM}$	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 Rectified Forward Current, @ $T_A = 50^\circ\text{C}$	4.0						A	
$I_{FSM}$	Non-repetitive Peak Forward Surge Current	200						A	
$T_{stg}$	Storage Temperature Range	-55 to +150						°C	
$T_J$	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
$P_D$	Power Dissipation	6.6		W
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient,* per leg	19		°C/W
$R_{\theta JL}$	Thermal Resistance, Junction to Lead,* per leg	4.0		°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

$T_A = 25^\circ\text{C}$  unless otherwise noted

Symbol	Parameter	Device		Units
$V_F$	Forward Voltage, per bridge @ 4.0 A	1.0		V
$I_R$	Reverse Current, total bridge @ rated $V_R$ $T_A = 25^\circ\text{C}$ $T_A = 100^\circ\text{C}$	5.0 500		μA μA

## Typical Characteristics

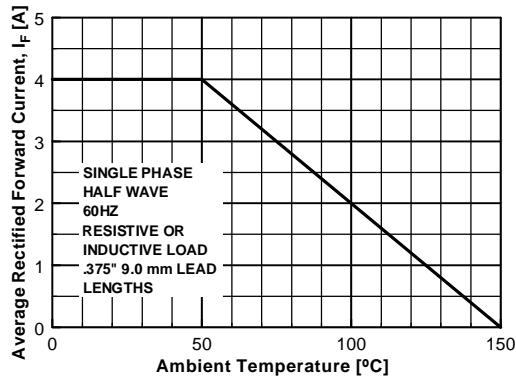


Figure 1. Forward Current Derating Curve

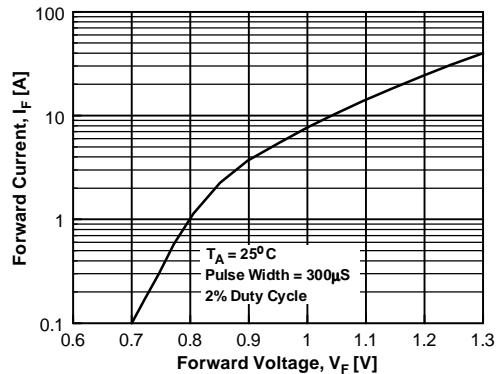


Figure 2. Forward Voltage Characteristics

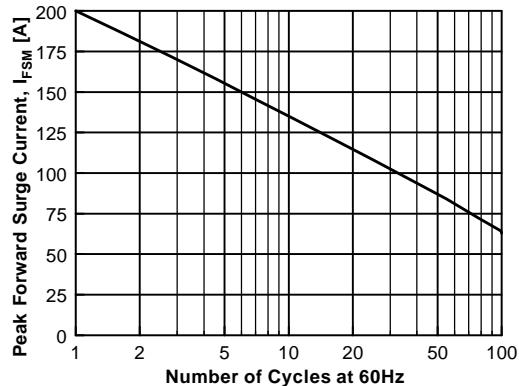


Figure 3. Non-Repetitive Surge Current

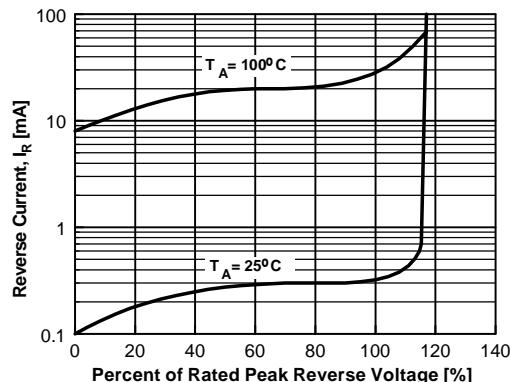


Figure 4. Reverse Current vs Reverse Voltage

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