

KBU6A - KBU6M

Features

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



KBl

Bridge Rectifiers

Absolute Maximum Ratings*

 $T_{\Delta} = 25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Value					Units		
		6A	6B	6D	6G	6J	6K	6M	
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 ₄ = 65°C		6.0					Α	
I _{FSM}	Non-repetitive Peak Forward Surge Current		250					Α	
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	6.7	W
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient,* per leg	8.6	°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" (12 x 12 mm) copper pads.

Electrical Characteristics T_A = 25°C unless otherwise noted

Symbol	Parameter	Device	Units
V _F	Forward Voltage, per bridge @ 6.0 A	1.0	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

Bridge Rectifiers

(continued)

Typical Characteristics

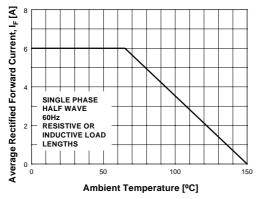


Figure 1. Forward Current Derating Curve

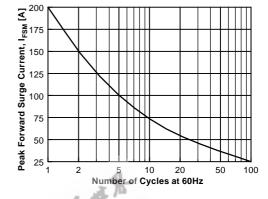


Figure 2. Non-Repetitive Surge Current

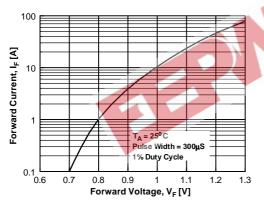


Figure 3. Forward Voltage Characteristics

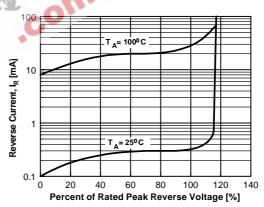


Figure 4. Reverse Current vs Reverse Voltage

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