

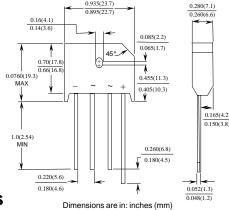
Discrete POWER & Signal Technologies

KBU6A - KBU6M

Features

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





6.0 Ampere Silicon Bridge Rectifiers

Absolute Maximum Ratings* T_A = 25°C unless otherwise noted

Symbol	Parameter	Value	Units	
lo	Average Rectified Current @ T _A = 65°C	6.0	A	
İf(surge)	Peak Forward Surge Current	250	A	
P _D	Total Device Dissipation Derate above 25°C	6.7 54	W mW/°C	
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient,** per leg	8.6	°C/W	
$R_{\theta JC}$	Thermal Resistance, Junction to Case,** per leg	4.0	°C/W	
T _{stg}	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.

Electrical Characteristics T_A = 25°C unless otherwise noted

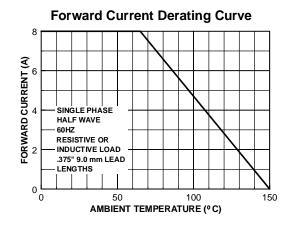
Parameter	Device							Units
	6A	6B	6D	6G	6J	6K	6M	
Peak Repetitive Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	35	70	140	280	420	560	700	V
DC Reverse Voltage (Rated V _R)	50	100	200	400	600	800	1000	V
Maximum Reverse Leakage, total bridge @ rated V_R $T_A = 25^{\circ}C$ $T_A = 100^{\circ}C$		•	•	5.0 500	•	•	•	μA μA
Maximum Forward Voltage Drop, per bridge @ 6.0 A				1.0				V

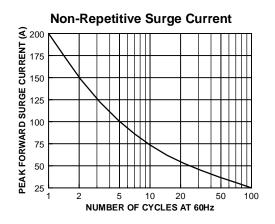
^{**}Device mounted on PCB with 0.375 " (9.5 mm) lead length and 0.5 x 0.5" (12 x 12 mm) copper pads.

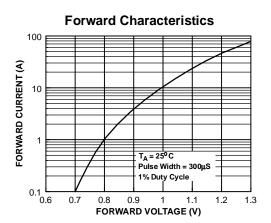
Silicon Bridge Rectifiers

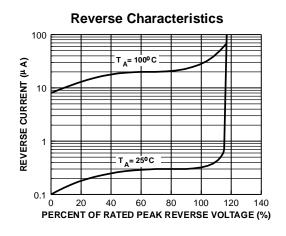
(continued)

Typical Characteristics









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