

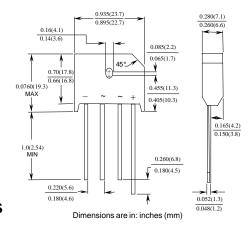
Discrete POWER & Signal Technologies

KBU8A - KBU8M

Features

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





8.0 Ampere Silicon Bridge Rectifiers

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

Symbol	Parameter	Value	Units	
Io	Average Rectified Current @ T _A = 50°C	8.0	А	
i _{f(surge)}	Peak Forward Surge Current	300	Α	
P_D	Total Device Dissipation Derate above 25°C	6.9 55	W mW/°C	
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient,** per leg	18	°C/W	
$R_{\theta JL}$	Thermal Resistance, Junction to Lead,** per leg	3.0	°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

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

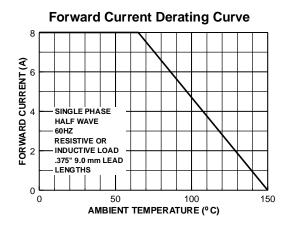
Parameter	Device						Units	
	8A	8B	8D	8G	8J	8K	8M	
Peak Repetitive Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	35	70	140	280	420	560	700	V
DC Reverse Voltage (Rated V _R)	50	100	200	400	600	800	1000	V
Maximum Reverse Leakage, total bridge @ rated V_R $T_A = 25^{\circ}C$ $T_A = 100^{\circ}C$		1		10 500			1	μA μA
Maximum Forward Voltage Drop, per bridge @ 8.0 A				1.0				V

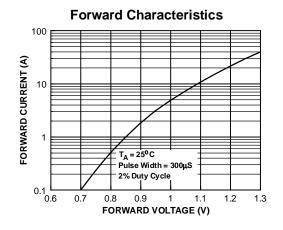
^{**}Device mounted on PCB with 0.375 " (9.5 mm) lead length and 0.5 x 0.5" (13 x 13 mm) copper pads.

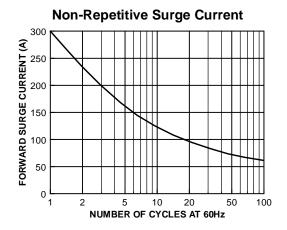
Silicon Bridge Rectifiers

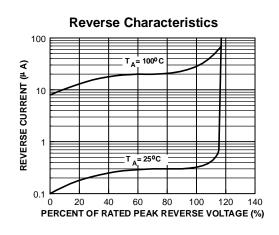
(continued)

Typical Characteristics









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