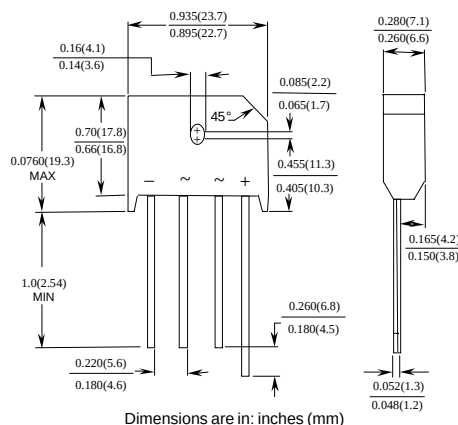


KBU8A - KBU8M



Features

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



8.0 Ampere Silicon Bridge Rectifiers

Absolute Maximum Ratings*

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

Symbol	Parameter	Value	Units
I_O	Average Rectified Current @ $T_A = 50^\circ\text{C}$	8.0	A
$I_{f(\text{surge})}$	Peak Forward Surge Current	300	A
P_D	Total Device Dissipation Derate above 25°C	6.9 55	W mW/ $^\circ\text{C}$
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient,** per leg	18	$^\circ\text{C/W}$
$R_{\theta JL}$	Thermal Resistance, Junction to Lead,** per leg	3.0	$^\circ\text{C/W}$
T_{stg}	Storage Temperature Range	-55 to +150	$^\circ\text{C}$
T_J	Operating Junction Temperature	-55 to +150	$^\circ\text{C}$

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

**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

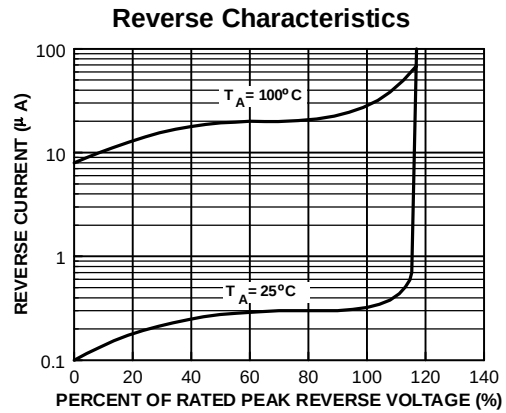
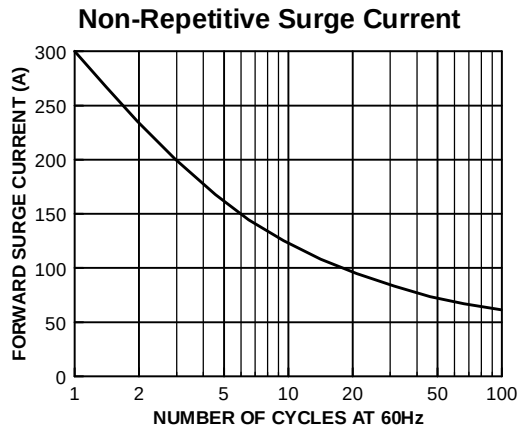
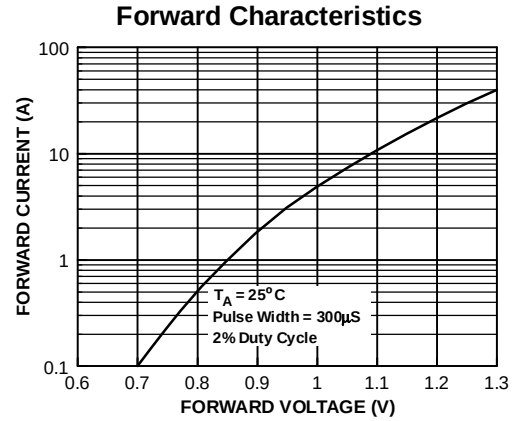
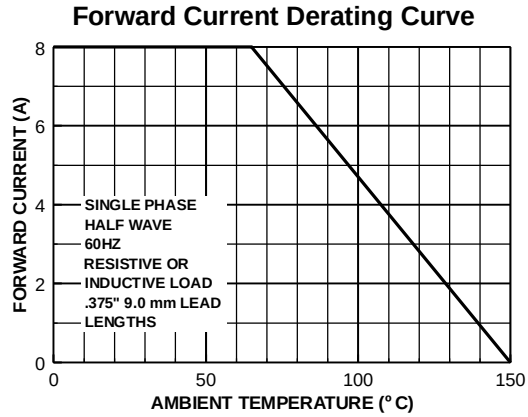
Parameter	Device							Units
	8A	8B	8D	8G	8J	8K	8M	
Peak Repetitive Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	35	70	140	280	420	560	700	V
DC Reverse Voltage (Rated V_R)	50	100	200	400	600	800	1000	V
Maximum Reverse Leakage, total bridge @ rated V_R $T_A = 25^\circ\text{C}$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

Silicon Bridge Rectifiers

(continued)

KB8A - KB8M

Typical Characteristics



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FAST®	SuperSOT™-3
FASTr™	SuperSOT™-6
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