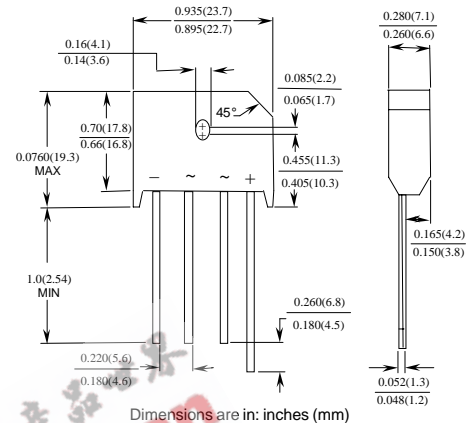


KBU8A - KBU8M

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	$^\circ\text{C}/\text{W}$
$R_{\theta JL}$	Thermal Resistance, Junction to Lead,** per leg	3.0	$^\circ\text{C}/\text{W}$
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								10	μA
								500	μA
Maximum Forward Voltage Drop, per bridge @ 8.0 A								1.0	V

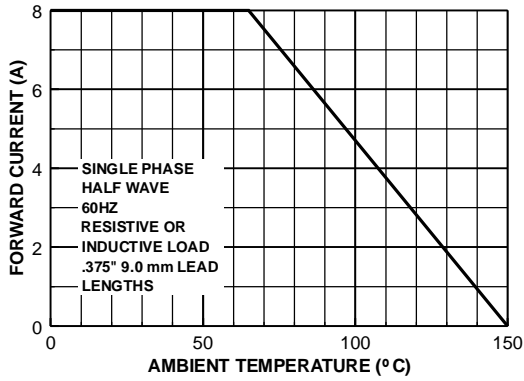
Silicon Bridge Rectifiers

(continued)

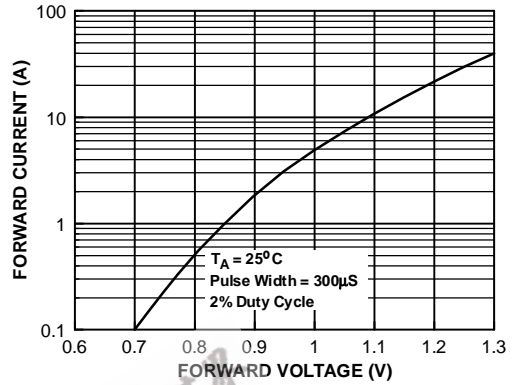
KBU8A - KBU8M

Typical Characteristics

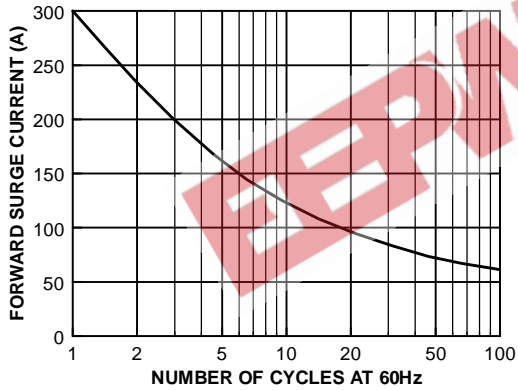
Forward Current Derating Curve



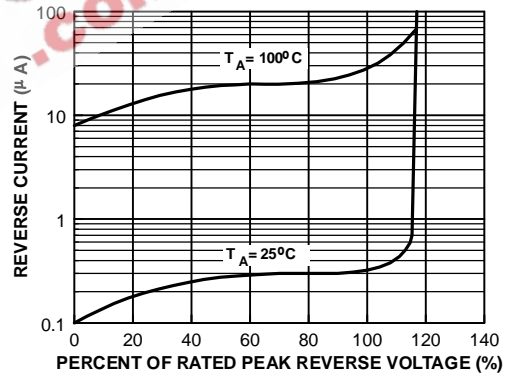
Forward Characteristics



Non-Repetitive Surge Current



Reverse Characteristics



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