



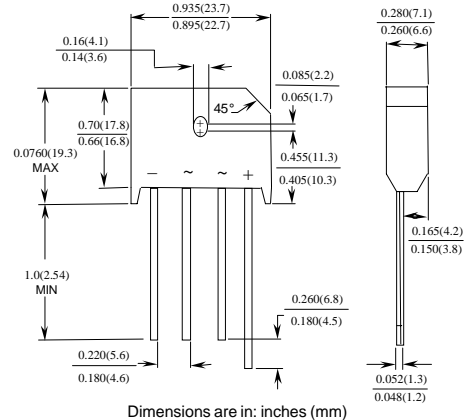
MASTER INSTRUMENT CORPORATION

KBU4A - KBU4M

VOLTAGE RANGE 50 to 1000 Volts
CURRENT 4.0 Amperes

Features

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



4.0 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 @ $T_A = 50^\circ\text{C}$	4.0	A
$I_{f(\text{surge})}$	Peak Forward Surge Current	200	A
P_D	Total Device Dissipation Derate above 25°C	6.6 53	W mW/ $^\circ\text{C}$
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient,** per leg	19	$^\circ\text{C}/\text{W}$
$R_{\theta JL}$	Thermal Resistance, Junction to Lead,** per leg	4.0	$^\circ\text{C}/\text{W}$
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
	4A	4B	4D	4G	4J	4K	4M	
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 $T_A = 25^\circ\text{C}$	5.0							μA
$T_A = 100^\circ\text{C}$	500							μA
Maximum Forward Voltage Drop, per bridge @ 4.0 A	1.0							V

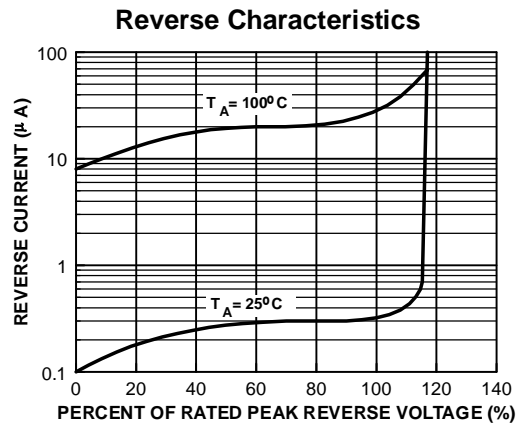
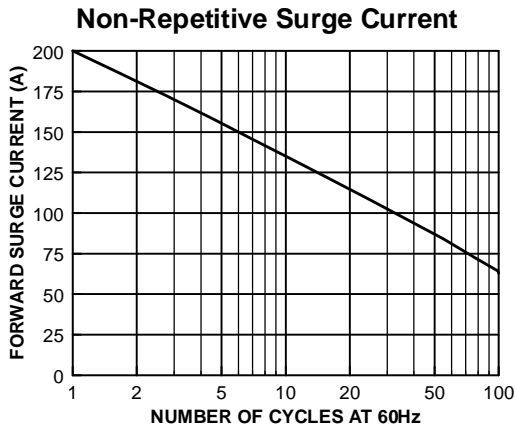
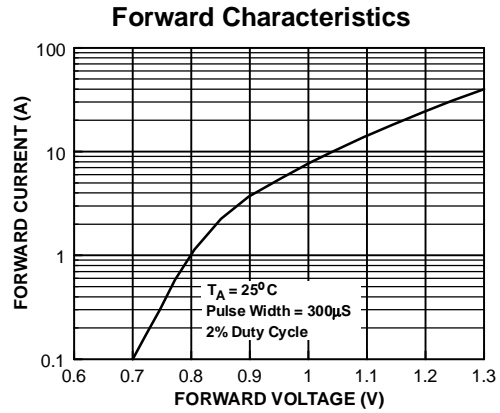
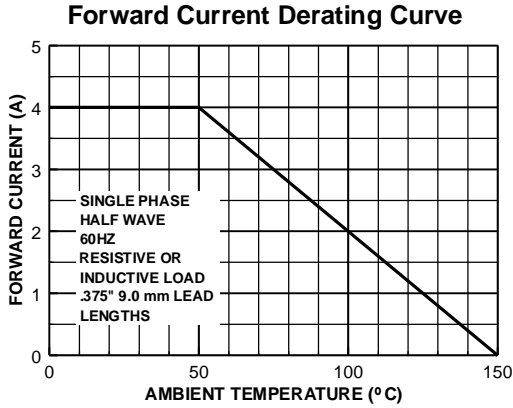


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Typical Characteristics



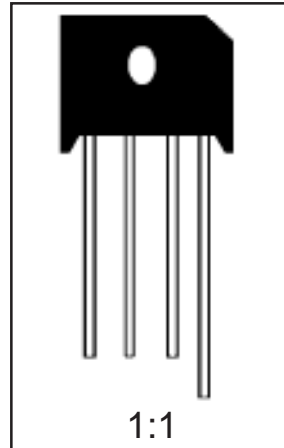
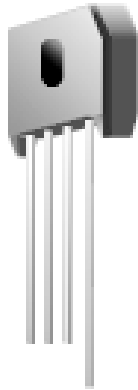


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KBU (FS PKG Code R7)



Scale 1:1 on letter size paper

Dimensions shown below are in:
inches [millimeters]

Part Weight per unit (gram): 8.0

