

# **Bridge Rectifiers**

Absolute Maximum Ratings*	T <sub>A</sub> = 25°C unless otherwise noted
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Symbol	Parameter	Value						Units	
_		4A	4B	4D	4G	4J	4K	4M	
V <sub>RRM</sub>	Maximum Repetitive Reverse Voltage	50	100	200	400	600	800	1000	V
V <sub>RMS</sub>	Maximum RMS Bridge Input Voltage	35	70	140	280	420	560	700	V
V <sub>R</sub>	DC Reverse Voltage (Rated V <sub>R</sub> )	50	100	200	400	600	800	1000	V
I <sub>F(AV)</sub>	Average Rectified Forward Current, @ $T_A = 50^{\circ}C$	4.0			А				
I <sub>FSM</sub>	Non-repetitive Peak Forward Surge Current	200			A				
T <sub>stg</sub>	Storage Temperature Range	-55 to +150			°C				
Tj	Operating Junction Temperature			-58	5 to +1	50			°C

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

### **Thermal Characteristics**

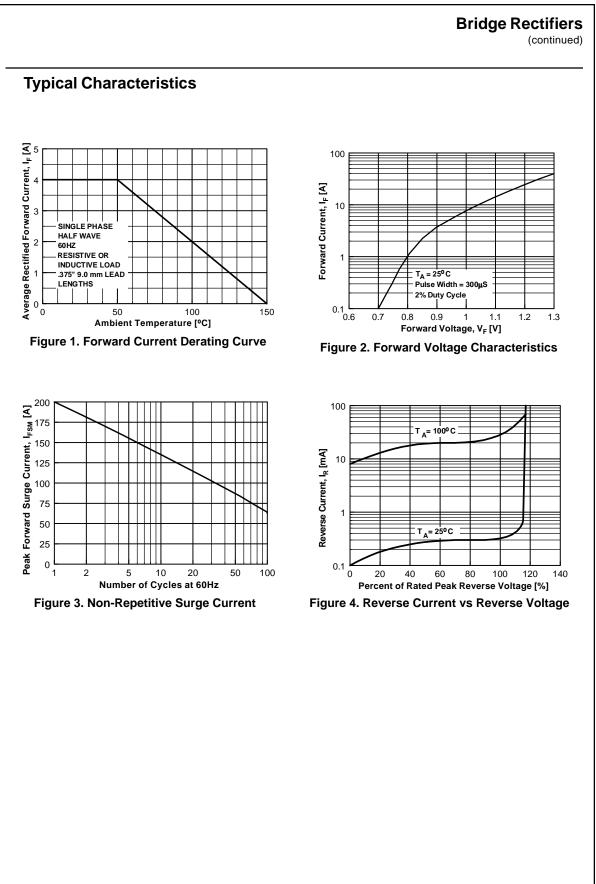
Symbol	Parameter	Value	Units
P <sub>D</sub>	Power Dissipation	6.6	W
$R_{_{ ext{ hetaJA}}}$	Thermal Resistance, Junction to Ambient,* per leg	19	°C/W
$R_{ extsf{ heta}JL}$	Thermal Resistance, Junction to Lead,* per leg	4.0	°C/W

\*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<sub>A</sub> = 25°C unless otherwise noted

Symbol	Parameter	Device	Units
V <sub>F</sub>	Forward Voltage, per bridge @ 4.0 A	1.0	V
I <sub>R</sub>	Reverse Current, total bridge @ rated V <sub>R</sub> $T_A = 25^{\circ}C$ $T_A = 100^{\circ}C$	5.0 500	μΑ μΑ

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KBU4A-KBU4M, Rev. C

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