

Bridge Rectifiers

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

Symbol	Parameter	Value						Units	
		8A	8B	8D	8G	8J	8K	8M	
V _{RRM}	Maximum Repetitive Reverse Voltage	50	100	200	400	600	800	1000	V
V _{RMS}	Maximum RMS Bridge Input Voltage	35	70	140	280	420	560	700	V
V _R	DC Reverse Voltage (Rated V _R)	50	100	200	400	600	800	1000	V
I _{F(AV)}	Average Rectified Forward Current, @ T _A = 50°C				8.0				А
I _{FSM}	Non-repetitive Peak Forward Surge Current	300			А				
T _{stg}	Storage Temperature Range	-55 to +150			°C				
TJ	Operating Junction Temperature			-5	5 to +1	50			°C

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

Thermal Characteristics

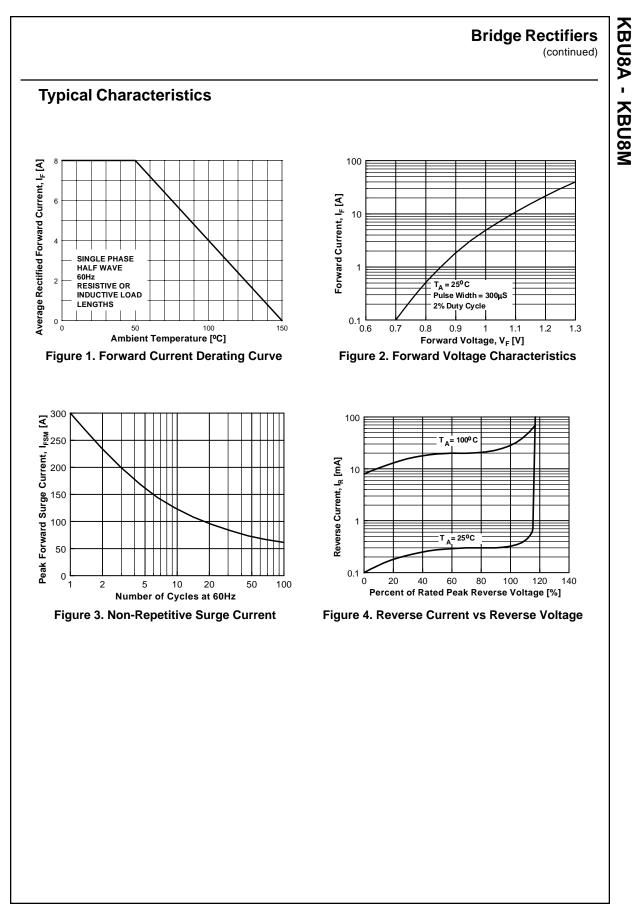
Symbol	Parameter	Value	Units
P _D	Power Dissipation	6.9	W
$R_{_{ ext{ heta}JA}}$	Thermal Resistance, Junction to Ambient,* per leg	18	°C/W
$R_{ extsf{ hetaJL}}$	Thermal Resistance, Junction to Lead,* per leg	3.0	°C/W

*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_A = 25°C unless otherwise noted

Symbol	Parameter	Device	Units
V _F	Forward Voltage, per bridge @ 8.0 A	1.0	V
I _R	Reverse Current, total bridge @ rated V _R $T_A = 25^{\circ}C$ $T_A = 100^{\circ}C$	10 500	μΑ μΑ

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