

# **Bridge Rectifiers**

Absolute Maximum Ratings*	$T_A = 25^{\circ}C$ unless otherwise noted
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Symbol	Parameter	Value						Units	
		005	01	02	04	06	08	10	
$V_{RRM}$	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 8.3 ms Single Half-Sine-Wave	200			А				
T <sub>stg</sub>	Storage Temperature Range	-55 to +150			°C				
TJ	Operating Junction Temperature	-55 to +150			°C				

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

## **Thermal Characteristics**

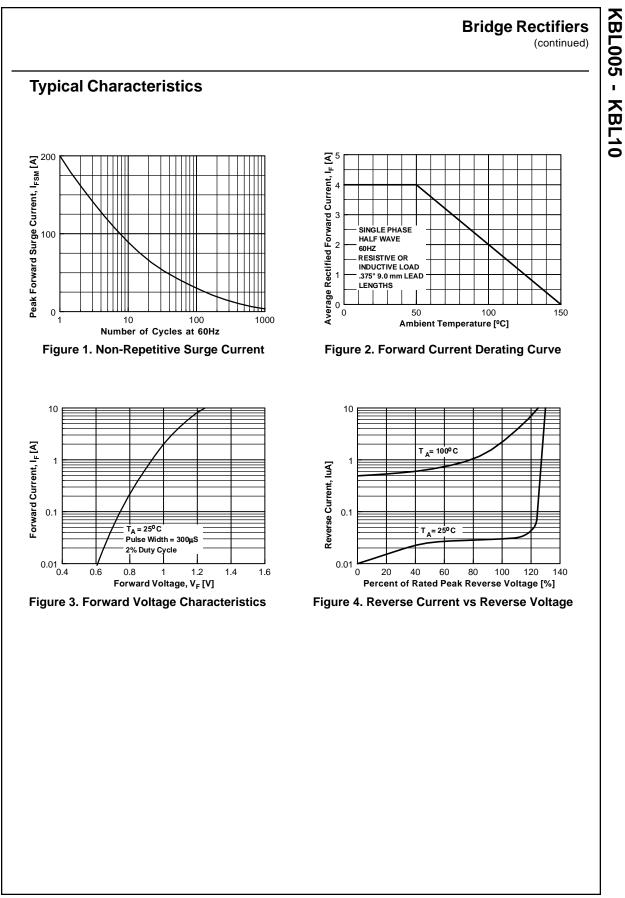
Symbol	Parameter	Value	Units
P <sub>D</sub>	Power Dissipation	6.58	W
R <sub>eJA</sub>	Thermal Resistance, Junction to Ambient,* per leg	19	°C/W
$R_{_{ ext{ hetaJL}}}$	Thermal Resistance, Junction to Lead,* per leg	2.4	°C/W

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

Symbol	Parameter	Device	Units	
V <sub>F</sub>	Forward Voltage, per bridge @ 4.0 A	1.1	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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