

Symbol	Parameter	Value	Units
lo	Average Rectified Current	2.0	А
İf(surge)	Peak Forward Surge Current	60	A
PD	Total Device Dissipation Derate above 25°C	4.7 33	₩ mW/°C
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient,** per leg	30	°C/W
T <sub>stg</sub>	Storage Temperature Range	-55 to +165	°C
TJ	Operating Junction Temperature	-55 to +165	°C

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

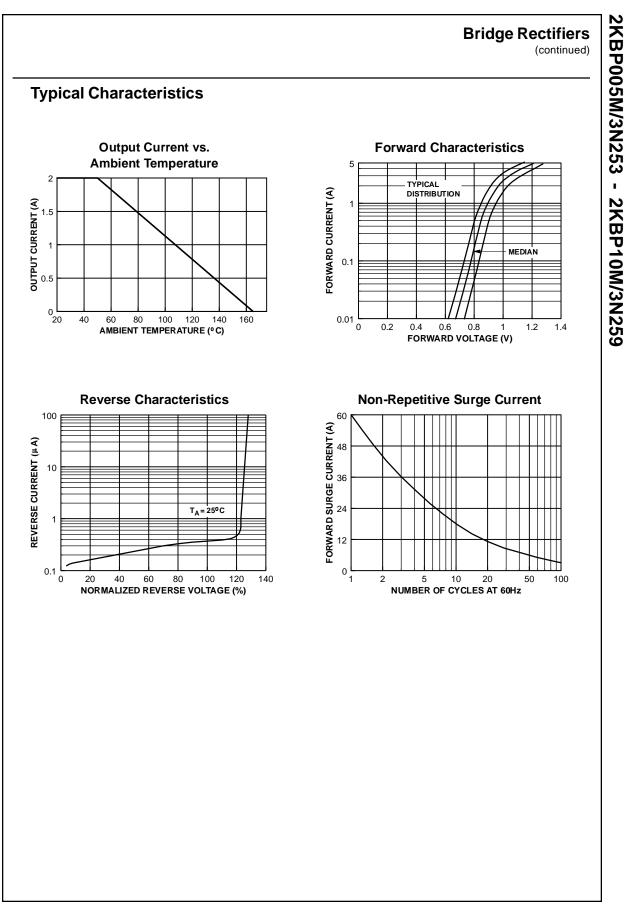
\*\* Device mounted on PCB with 0.47 x 0.47" (12 x 12 mm).

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

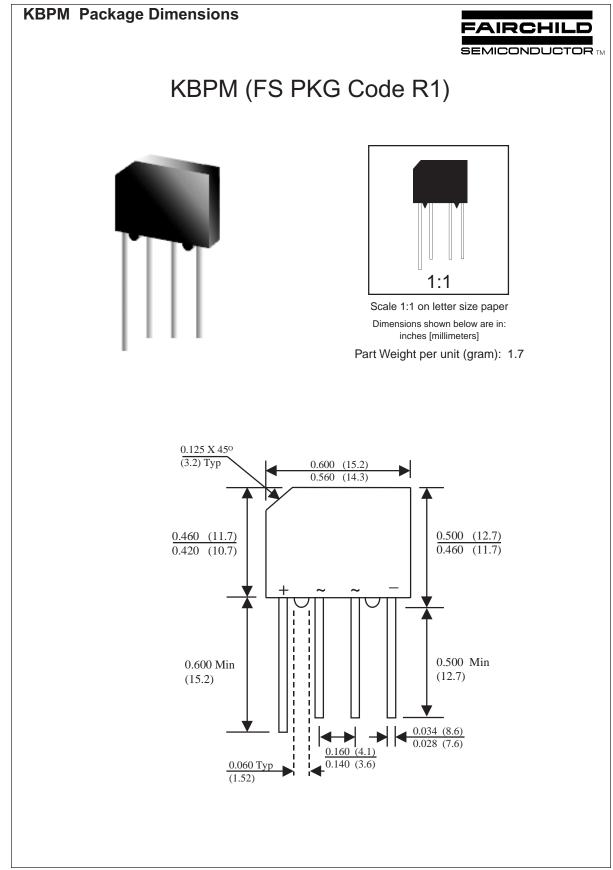
Parameter		Device						
	005M	01M	02M	04M	06M	08M	10M	1
	253	254	255	256	257	258	259	1
Peak Repetitive Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	35	70	140	280	420	560	700	V
DC Reverse Voltage (Rated V <sub>R</sub> )	50	100	200	400	600	800	1000	V
Maximum Reverse Leakage, total bridge @ rated V <sub>R</sub> $T_A = 25^{\circ}C$ $T_A = 125^{\circ}C$		5.0 500						
Maximum Forward Voltage Drop, per bridge @ 3.14 A	1.1							V
$I^{2}t$ rating for fusing $t < 8.35$ ms		15						A <sup>2</sup> Sec
Typical Junction Capacitance, per leg $V_R = 4.0 V$ , f = 1.0 MHz				25				pF

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2KBP005/3N253-2KBP10/3N259, Rev. B



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Definition of Terms

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