

KBP005M/3N246 - KBP10M/3N252

1.5 Ampere Bridge Rectifiers

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

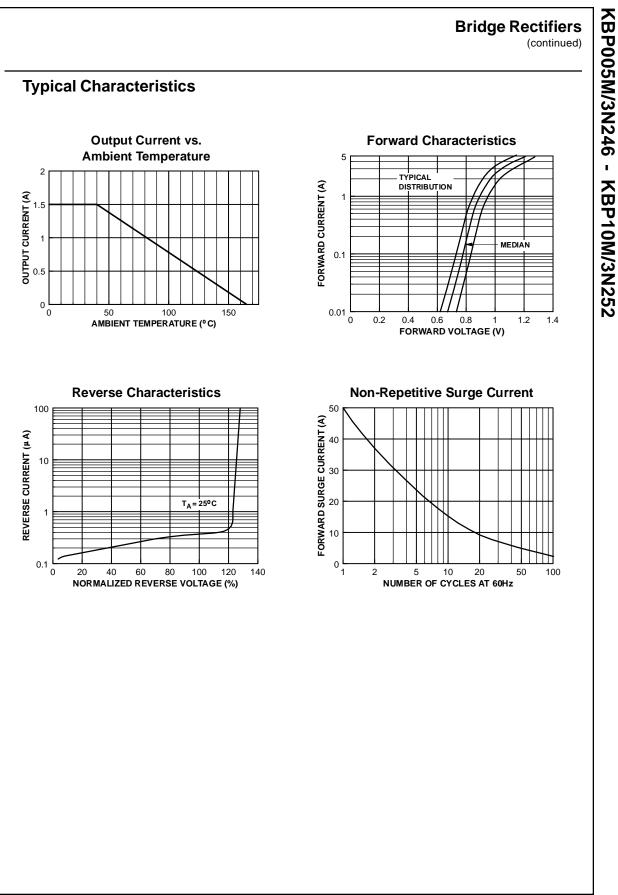
Symbol	Parameter	Value	Units	
I _{F(AV)}	Average Rectified Current @ $T_A = 50^{\circ}C$	1.5	A	
I _{FSM}	Non-repetitive Peak Forward Surge Current	50	А	
PD	Total Device Dissipation Derate above 25°C	3.5 25	W mW/°C	
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient,** per leg	40	°C/W	
T _{stg}	Storage 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.

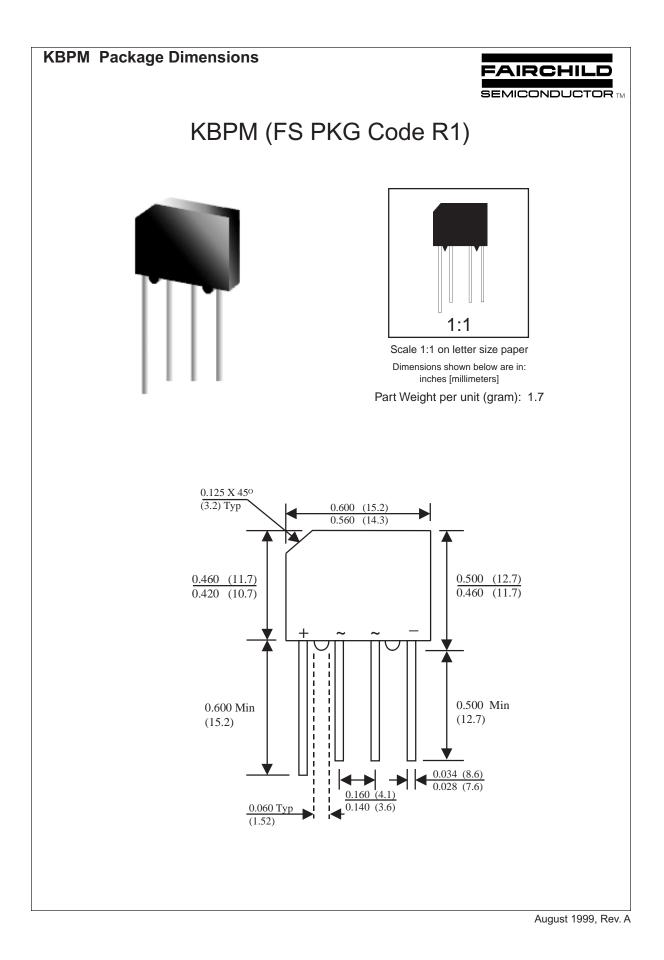
** Device mounted on PCB with 0.47 x 0.47" (12 x 12 mm).

Electrical Characteristics T_A = 25°C unless otherwise noted

Symbol	Parameter			Device						Units
			005M	01M	02M	04M	06M	08M	10M	
			246	247	248	249	250	251	252	
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 _{RM}	Maximum Instantaneous Reverse Leakage, total bridge @ rated $V_R T_A = 25^{\circ}C$ $T_A = 100^{\circ}C$		5.0 500						μΑ μΑ	
V _{FM}	Maximum Instantaneous Forward Voltage Drop, per bridge @ 1.0 A @ 3.14 A		1.0 1.3						V V	
	I ² t rating for fusing	t < 8.35 ms	10			A ² s				
С	Typical Junction Capacitance, per leg $V_R = 4.0 V$, f = 1.0 MHz		15						pF	



KBP005M/3N246-KBP10M/3N252, Rev. A2



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