

KBP005M/3N246 - KBP10M/3N252

Features

- Surge overload rating: 50 amperes peak.
- Reliable low cost construction utilizing molded plastic technique.
- UL certified, UL #E111753.



Bridge Rectifiers

Absolute Maximum Ratings*	T _A = 25°C unless otherwise noted
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	Parameter	Value							
Symbol		005M	M 01M	M 02M	04M	06M	08M	10M	Units
		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 _{F(AV)}	Average Rectified Forward Current, @ $T_A = 50^{\circ}C$	1.5				А			
I _{FSM}	Non-repetitive Peak Forward Surge Current	50				А			
T _{stg}	Storage Temperature Range	-55 to +165			°C				
TJ	Operating Junction Temperature			-55	5 to +16	65			°C

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

Thermal Characteristics

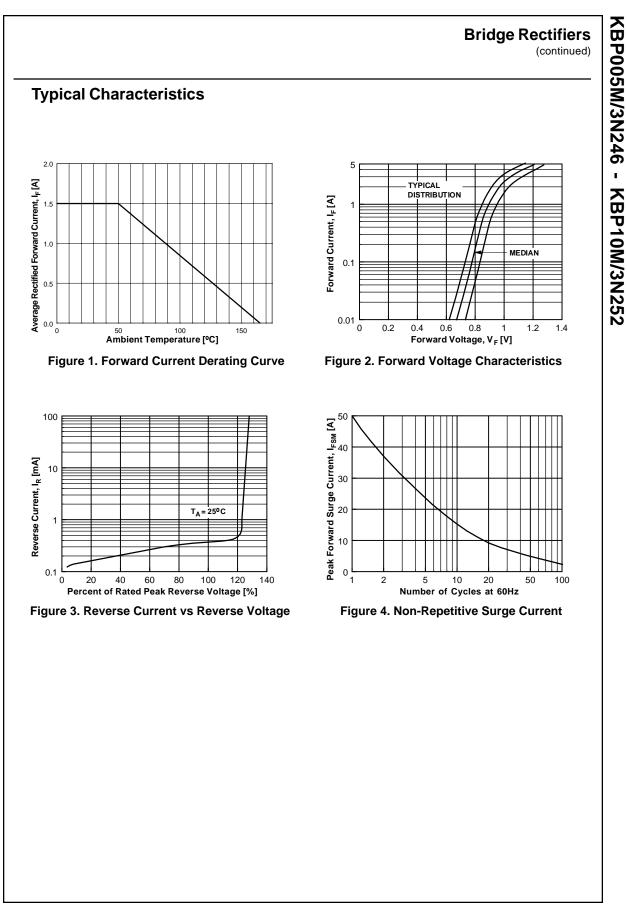
Symbol	Parameter	Value	Units	
PD	Power Dissipation	3.5	W	
$R_{ extsf{ heta}JA}$	Thermal Resistance, Junction to Ambient,* per leg	40	°C/W	

*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	
V _F F	Forward Voltage, per bridge @ 1.0 A @ 3.14 A	1.0 1.3	V V	
I _R	Reverse Current, total bridge @ rated V_R $T_A = 25^{\circ}C$ $T_A = 100^{\circ}C$	5.0 500	μΑ μΑ	
	l ² t rating for fusing t < 8.35 ms	10	A ² s	
C _T	Total Capacitance, per leg $V_R = 4.0 \text{ V}, \text{ f} = 1.0 \text{ MHz}$	15	pF	

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

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