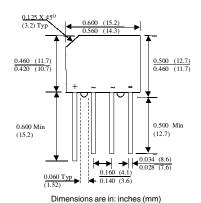


KBP005M/3N246 - KBP10M/3N252

Features

- Surge overload rating: 50 amperes peak.
- Reliable low cost construction utilizing molded plastic technique.





1.5 Ampere Bridge Rectifiers

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

Symbol	Parameter	Value	Units	
lo	Average Rectified Current @ T _A = 50°C	1.5	Α	
İf(surge)	Peak Forward Surge Current	50	Α	
P _D	Total Device Dissipation Derate above 25°C	3.5 25	W mW/°C	
R _{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.

Electrical Characteristics T_A = 25°C unless otherwise noted

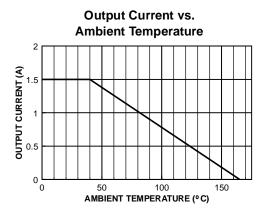
Parameter		Device							Units
		005M	01M	02M	04M	06M	M80	10M	
		246	247	248	249	250	251	252	
Peak Repetitive Reverse Voltage		50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage		35	70	140	280	420	560	700	V
DC Reverse Voltage	(Rated V _R)	50	100	200	400	600	800	1000	V
Maximum Reverse Le		l		ı	l				
total bridge @ rated V _R T _A = 25°C					5.0				Α
ŭ	$T_A = 100^{\circ}C$				500				Α
Maximum Forward Voltage Drop,									
per bridge @ 1.0 A		1.0							V
@ 3.14 A		1.3						V	
I ² t rating for fusing t < 8.35 ms		10						A ² Sec	
Typical Junction Capa V _R = 4.0 V, f = 1.				15				pF	

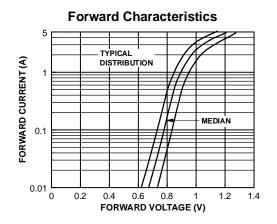
^{**}Device mounted on PCB with 0.47 x 0.47" (12 x 12 mm).

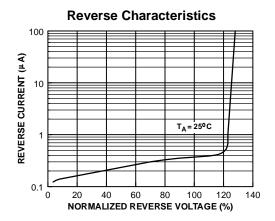
Bridge Rectifiers

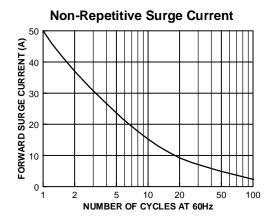
(continued)

Typical Characteristics









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FACTTM QSTM

FACT Quiet Series $^{\text{TM}}$ Quiet Series $^{\text{TM}}$ SuperSOT $^{\text{TM}}$ -3 SuperSOT $^{\text{TM}}$ -6 GTO $^{\text{TM}}$ SuperSOT $^{\text{TM}}$ -8 HiSeC $^{\text{TM}}$ TinyLogic $^{\text{TM}}$

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No Identification Needed	Full Production	This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.				
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