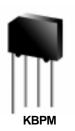


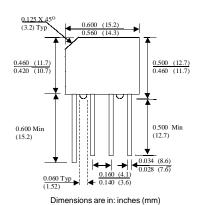
Discrete POWER & Signal Technologies

2KBPM005M/3N253 - 2KBPM10M/3N259

Features

- Surge overload rating: 60 amperes peak.
- Reliable low cost construction utilizing molded plastic technique.





2.0 Ampere Bridge Rectifiers

Absolute Maximum Ratings*

 $T_A = 25$ °C unless otherwise noted

Symbol	Parameter	Value	Units
I _O	Average Rectified Current	2.0	Α
İf(surge)	Peak Forward Surge Current	60	Α
P _D	Total Device Dissipation Derate above 25°C	4.7 33	W mW/°C
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient,** per leg	30	°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

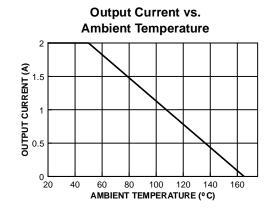
Parameter		Device						Units
	M005M	M01M	M02M	M04M	M06M	M80M	M10M	
	253	254	255	256	257	258	259	
Peak Repetitive Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	e 35	70	140	280	420	560	700	V
DC Reverse Voltage (Rated V _R)	50	100	200	400	600	800	1000	V
Maximum Reverse Leakage,			•				•	
total bridge @ rated V _R T _A = 25°C		5.0						μΑ
T _A = 125°C				500				μΑ
Maximum Forward Voltage Drop,								
per bridge @ 3.14 A		1.1						V
I^2 t rating for fusing $t < 8.35 \text{ ms}$		15					A ² Sec	
Typical Junction Capacitance, per le $V_R = 4.0 \text{ V}, f = 1.0 \text{ MHz}$	eg			25				pF

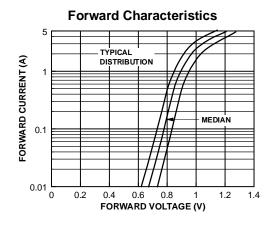
^{**} Device mounted on PCB with 0.47 x 0.47" (12 x 12 mm).

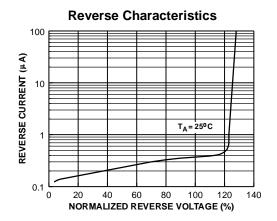
Bridge Rectifiers

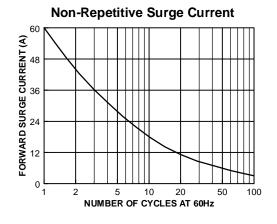
(continued)

Typical Characteristics









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