MP15M SERIES

SINGLE-PHASE 15 AMPS. SILICON BRIDGE RECTIFIERS





Mounting: thru hole for #6 screw



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

		MP15005M	MP1501M	MP1502M	MP1504M	MP1506M	MP1508M	MP1510M	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Output Current @ T _A =55°C	V _(AV)	15						A	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load(JEDEC Method)	I _{FSM}	200							A
Maximum Forward Voltage per Bridge Element MP15 at IF 7.5A	V _F	1.1							V
Maximum DC Reverse Current at rated @T _A =25°C DC Blocking Voltage Per Bridge Element	I _R	10							μΑ
Operating Temperature Range	Т _Ј	-55 to +125							°C
Storage Temperature Range	T _{STG}	-55 to +125						°C	
*(Plastic case & Metal base)									

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RATING AND CHARACTERISTICS CURVES MP15M SERIES



NUMBER OF CYCLES AT 60 Hz

Fig.2 - DERATING CURVE FOR AVERAGE FORWARD OUTPUT CURRENT AMPERES OUTPUT RECTIFIED CURRENT 20 15 10 5 0

TEMPERATURE, °C

100

50



Fig.3 - TYPICAL FORWARD CHARACTERISTICS



INSTANTANEOUS FORWARD VOLTAGE, VOLTS

Fig.4 - TYPICAL REVERSE CHARACTERISTICS

