

# DC COMPONENTS CO., LTD.

### RECTIFIER SPECIALISTS

MP6005G THRU MP610G

TECHNICAL SPECIFICATIONS OF SINGLE-PHASE GLASS PASSIVATED BRIDGE RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

CURRENT - 6.0 Amperes

#### **FEATURES**

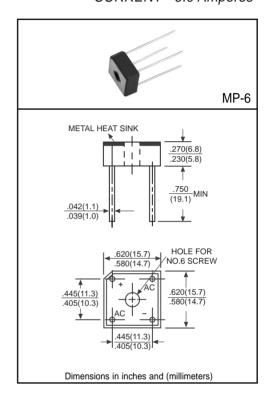
- \* Surge overload rating: 180 Amperes peak
- \* Low forward voltage drop
- \* Small size: simple installation
- \* Glass passivated junction

#### MECHANICAL DATA

- \* Case: Molded plastic with heatsink
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Lead: MIL-STD-202E, Method 208 guaranteed
- \* Polarity: Symbols molded or marked on body
- \* Mounting position: Any
- \* Weight: 6.1 grams

#### 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%.

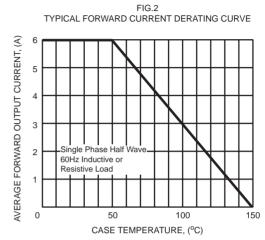


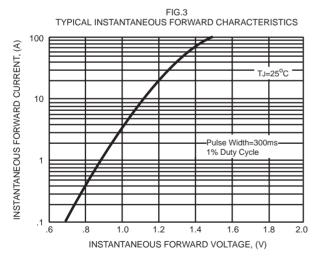
		SYMBOL	MP6005G	MP601G	MP602G	MP604G	MP606G	MP608G	MP610G	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input Voltage		VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Output Current at Tc = 50°C		lo	6.0						Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	180						Amps	
Maximum Forward Voltage Drop per element at 3.0A DC		VF	1.0						Volts	
Maximum DC Reverse Current at Rated	@Ta= 25°C	lr.	10							μAmps
DC Blocking Voltage per element	@Tc= 100°C		500							
Operating Temperature Range		TJ	-55 to +150						°C	
Storage Temperature Range		Тѕтс	-55 to +150						°C	

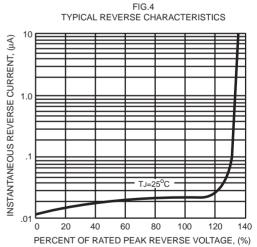
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## **RATING AND CHARACTERISTIC CURVES (MP6005G THRU MP610G)**

FIG.1 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PEAK FORWARD SURGE CURRENT, (A) 8.3ms Single Half Sine-Wave (JEDEC Mathod) NUMBER OF CYCLES AT 60Hz







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