

MB1F THRU MB10F

SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

VOLTAGE RANGE 100 to 1000 Volts CURRENT 0.8 Ampere

FEATURES

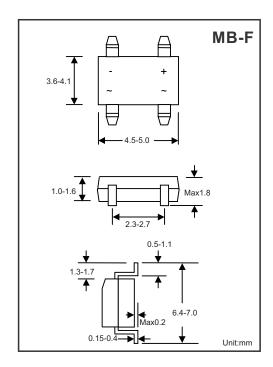
- * Surge overload rating 30 amperes peak
- * Ideal for printed circuit board
- * Reliable low cost construction utilizing molded
- * Glass passivated device
- * Polarity symbols molded on body
- * Mounting position: Any
- * P/N suffix V means AEC-Q101 qualified, e.g:MB1FV
- * P/N suffix V means Halogen-free

MECHANICAL DATA

* Epoxy: Device has UL flammability classification 94V-O

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. resistive or inductive load.



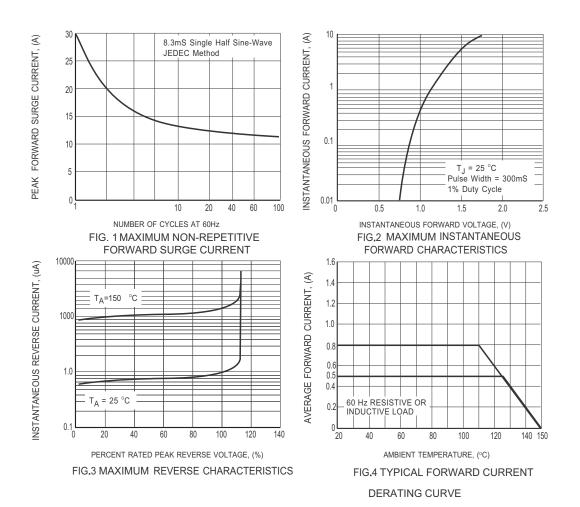
MAXIMUM RATINGS (At T_A = 25°C unless otherwise noted)

RATINGS	SYMBOL	MB1F	MB2F	MB4F	MB6F	MB8F	MB10F	UNITS	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	100	200	400	600	800	1000	Volts	
Maximum RMS Bridge Input Voltage		V _{RMS} 70 140 280 420 560 700				Volts			
Maximum DC Blocking Voltage	V _{DC} 100 200 400 600 800 1000				Volts				
Maximum Average Forward Rectified Current	T _A = 125 °C		0.5						
· ·	T _A = 110 °C	I _O	8.0						
Peak Forward Surge Current 8.3 ms single half superimposed on rated load (JEDEC method)	I _{FSM}	30						Amps	
Peak Forward Surge Current 10 ms single half superimposed on rated load (JEDEC method)	I _{FSM}	27.3						Amps	
Typical Current Squarad Time	l²t	3.74						A ² S	
Turinel Thermal Desistance (Alete 2)		R _{θJA}	64						°C/W
Typical ThermalResistance(Note2)		R _{θJL}			39				
Operating and Storage Temperature Range	TJ,TSTG	-55 to + 150						۰c	

ELECTRICAL CHARACTERISTICS (At T_A = 25°C unless otherwise noted)

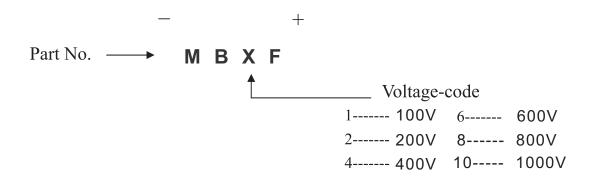
CHARACTERISTICS	SYMBOL	MB1F	MB2F	MB4F	MB6F	MB8F	MB10F	UNITS		
Maximum Forward Voltage Drop per Bridge		VE			1	1				
Element at 0.8 A DC		V F			'	.1			Volts	
Maximum Reverse Current at Rated	@T _A = 25°C	la la	1.0						uAmps	
DC Blocking Voltage per element	@T _A =150 °C] "R	I _R 2					mAmps		

RATING AND CHARACTERISTICS CURVES (MB1F THRU MB10F)



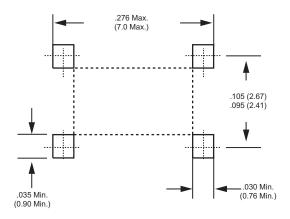


Marking Description





Mounting Pad Layout



Dimensions in inches and (millimeters)



PACKAGING OF DIODE AND BRIDGE RECTIFIERS

REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	EA PER INNER BOX	COMPONENT SPACE (mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
MB-F	-W	5,000	10,000			330	360*335*360	80,000	25.83

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