

SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIERS

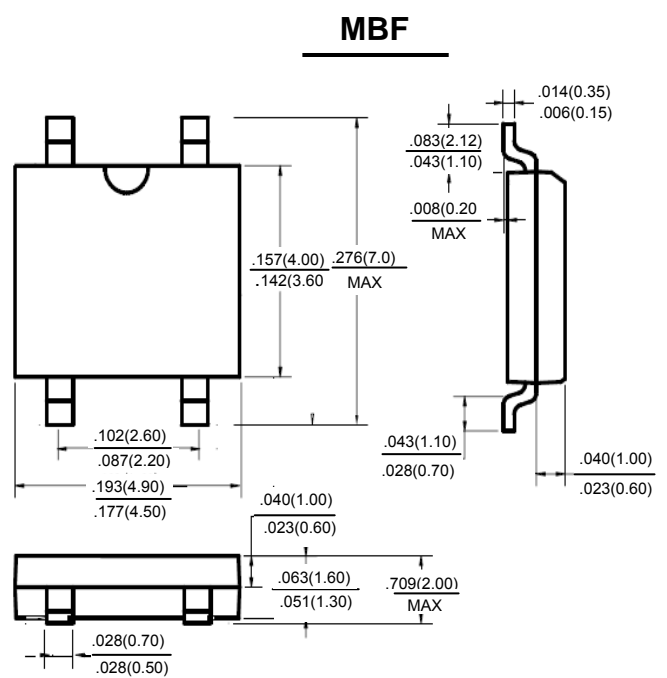
REVERSE VOLTAGE - 100 to 1000 Volts
FORWARD CURRENT - 0.8 Ampere

FEATURES

- Glass passivated chip
- High surge forward current capability

APPLICATIONS

- General purpose 1 phase Bridge rectifier applications



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	MB1F	MB2F	MB4F	MB6F	MB8F	MB10F	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T _A = 40 °C	I _(AV)	0.8						A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I _{FSM}	30						A
Current Squared Time	I ² t	3.7						A ² s
Maximum Peak Forward Voltage @I _F = 0.8A	V _F	1.1						V
Maximum DC Reverse Current @T _J = 25°C at Rated DC Blocking Voltage @T _J = 125°C	I _R	10 100						μA
Typical Thermal Resistance On alumina substrate On glass-epoxy substrate	R _{θJA}	76.0 134.0						°C/W
Typical Thermal Resistance	R _{θJL}	20.0						°C/W
Operating Temperature Range	T _J	-55 to +150						°C
Storage Temperature Range	T _{STG}	-55 to +150						°C

Note: 1. The typical data above is for reference only (典型值仅供参考).

RATING AND CHARACTERISTIC CURVES

MB1F thru MB10F



FIG.1-FORWARD CURRENT DERATING CURVE

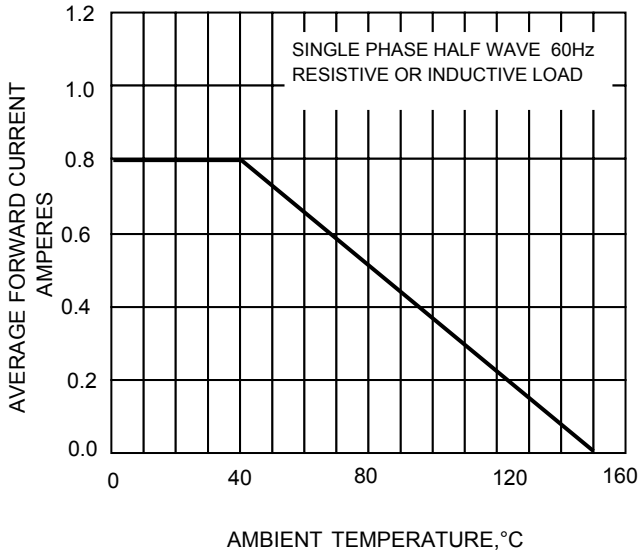


FIG.2-MXIMUM NON-REPETITIVE SURGE CURRENT

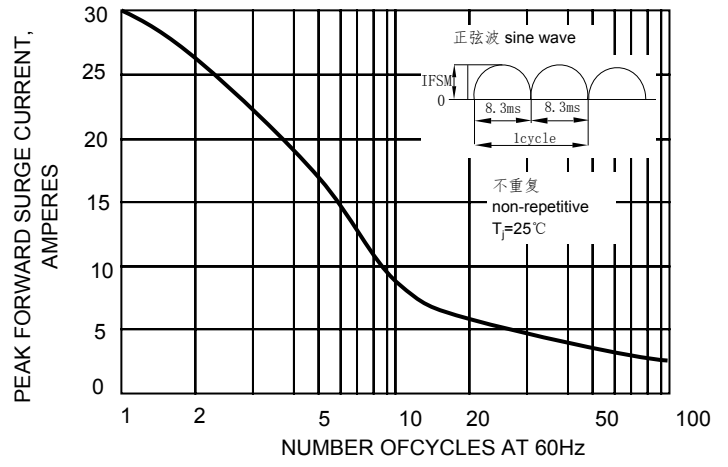


FIG.3-TYPICAL FORWARD

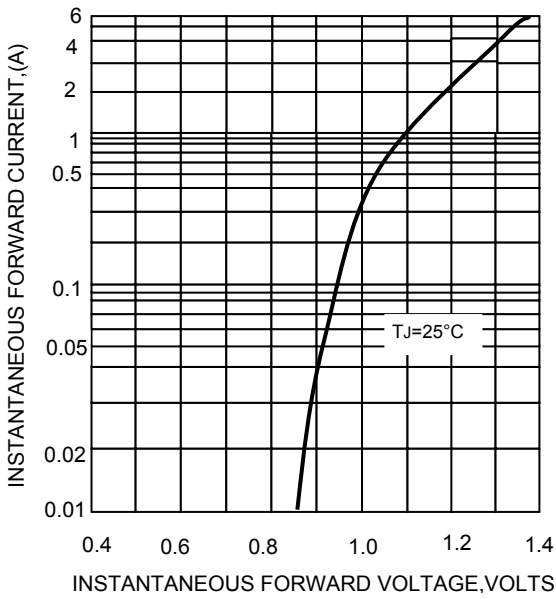
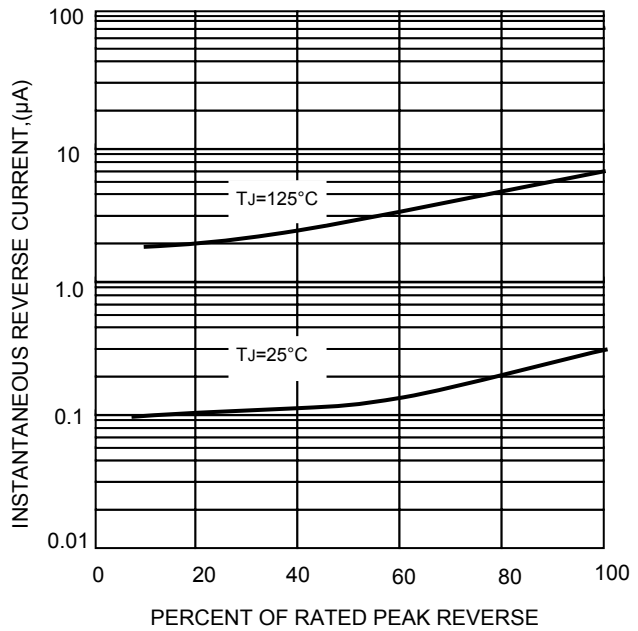


FIG.4-TYPICAL REVERSE CHARACTERISTICS



The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!