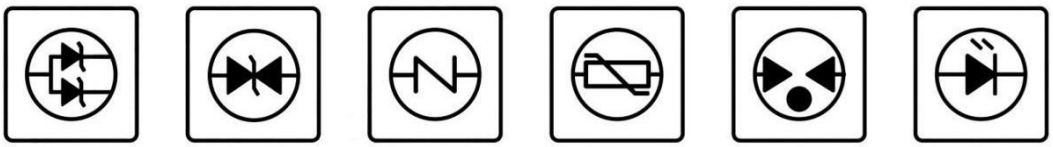
MSKSEMI 美森科
SEMICONDUCTOR



GBL8005-MS THRU GBL810-MS

Product specification

GBL8005-MS THRU GBL810-MS

REVERSE VOLTAGE - 50 to 1000 Volts
FORWARD CURRENT - 8.0 Amperes

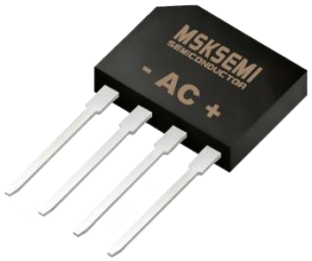
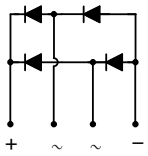
FEATURES

- deal for printed circuit board mounting
- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- Built-in printed circuit board stand-offs
- High case dielectric strength
- High temperature soldering guaranteed 260 /5 seconds at 5 lbs (2.3kg) tension

MECHANICAL DATA

- Case: Reliable low cost construction utilizing
- molded plastic technique
- Terminals: Plated leads solderable per MIL-STD-202,Method 208
- Mounting Position: Any

REFERENCE NEWS

GBL



Marking

GBL8005-MS	GBL801-MS	GBL802-MS	GBL804-MS
MSKSEMI GBL8005 + AC -	MSKSEMI GBL801 + AC -	MSKSEMI GBL802 + AC -	MSKSEMI GBL804 + AC -
GBL806-MS	**GBL808-MS**	**GBL810-MS**	
MSKSEMI GBL806 + AC -	MSKSEMI GBL808 + AC -	MSKSEMI GBL810 + AC -	

MAXIMUM RATINGS & THERMAL CHARACTERISTICS

Rating at 25 ℃ ambient temperature unless otherwise specified, Resistive or Inductive load, 60 Hz.
For Capacitive load derate current by 20%.

Parameter	Symbol	GBL8005 -MS	GBL801 -MS	GBL802 -MS	GBL804 -MS	GBL806 -MS	GBL808 -MS	GBL810 -MS	unit
Maximum repetitive 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 rectified output current at TC=100℃ (with heatsink)	$I_{F(AV)}$	8.0							A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	175							A
Rating for fusing (t<8.3ms)	I^2t	127							A^2sec
Operating junction and storage temperature range	T_J ,T_{STG}	-55 to + 150							℃

Electrical Characteristics

Rating at 25 ℃ ambient temperature unless otherwise specified. Resistive or Inductive load, 60Hz.
For Capacitive load derate by 20 %.

Parameter	Symbol	GBL8005 -MS	GBL801 -MS	GBL802 -MS	GBL804 -MS	GBL806 -MS	GBL808 -MS	GBL810 -MS	Unit
Maximum instantaneous forward voltage drop per leg at 4.0A	V_F	1.1							V
Maximum DC reverse current at rated TA =25℃ **DC blocking voltage per element TA =125℃**	I_R	10 500							μA

Notes: (1)Thermal resistance from Junction to Ambemt on P.C.board mounting.

Rating and Characteristic Curves (TA = 25°C Unless otherwise noted)

Fig. 1 Derating Curve for Output Rectified Current

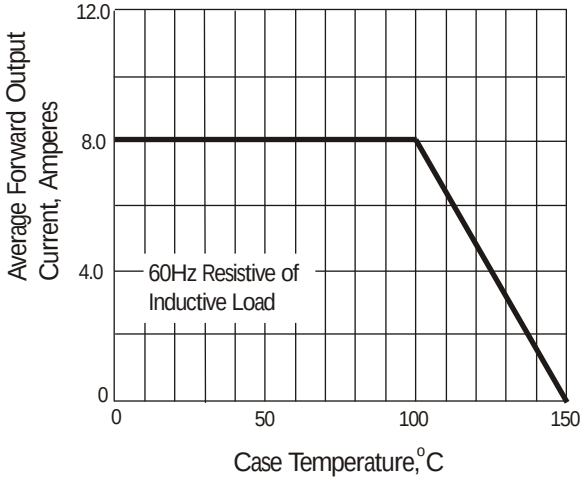


Fig. 2 Maximum Non-repetitive Peak Forward Surge Current

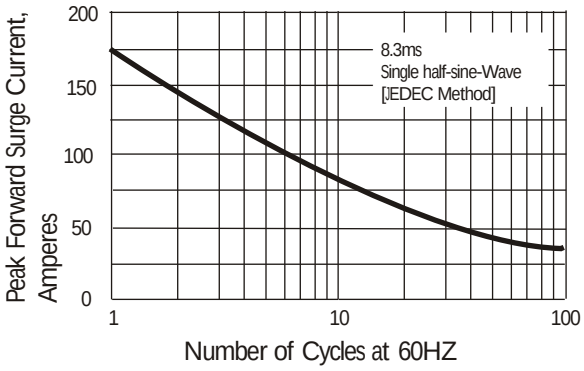


Fig. 3 Typical Instantaneous Forward Characteristics

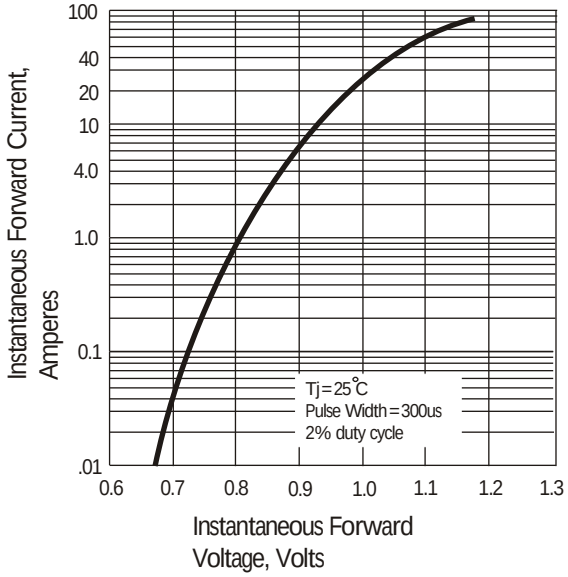


Fig. 4 Typical Reverse Characteristics

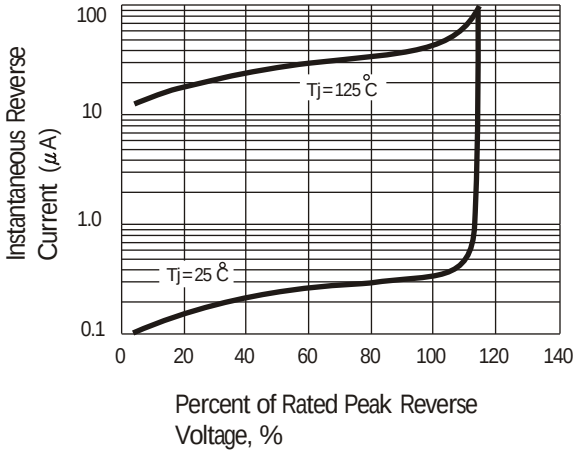
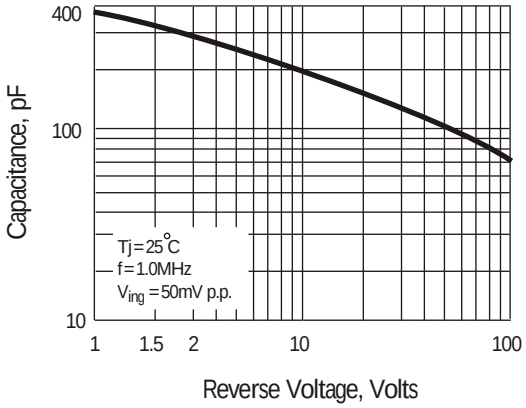
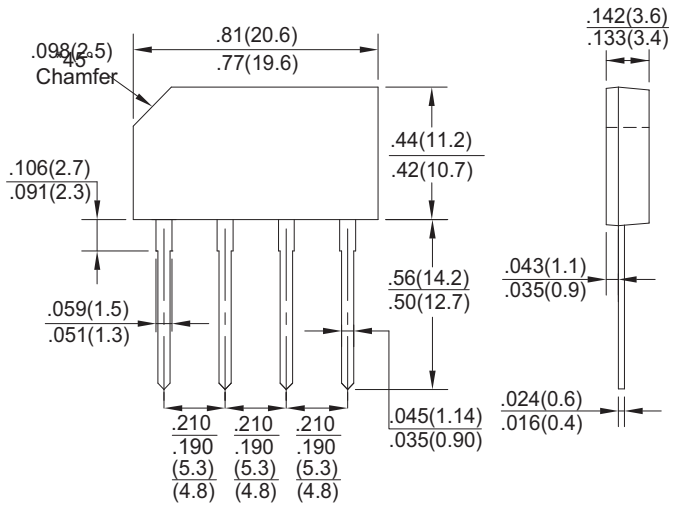


Fig. 5 Typical Junction Capacitance



PACKAGE MECHANICAL DATA

GBL



Dimensions in inches and (milimeters)

REELSPECIFICATION

P/N	PKG	QTY
GBL8005-MS THRU GBL810-MS	GBL	500

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