MSKSEMI 美森科













ESD

MOV

GBL6005-MS THRU GBL610-MS

Product specification





REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 6.0 Amperes

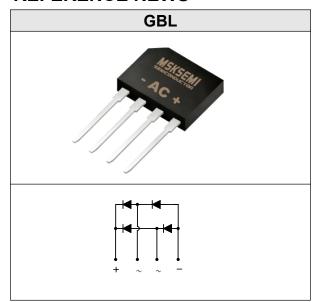
FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Idea for printed circuit board
- Glass passivated Junction chip
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed 260 C/10 seconds at terminals

MECHANICAL DATA

- Case : Molded plastic body
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- **Polarity**: Polarity symbol marking on body
- Mounting Position : Any

REFERENCE NEWS



Marking

GBL6005-MS	GBL601-MS	GBL602-MS	GBL604-MS
MSKSEMI	MSKSEMI	MSKSEMI	MSKSEMI
GBL6005	GBL601	GBL602	GBL604
+ AC -	+ AC -	+ AC -	+ AC -
GBL606-MS	GBL608-MS	GBL610-MS	
MSKSEMI	MSKSEMI	MSKSEMI	
GBL606	GBL608	GBL610	
+ AC -	+ AC -	+ AC -	

GBL6005-MS THRU GBL610-MS

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 current derate by 20%.

Parameter		SYMBOLS	GBL6005 -MS	GBL601 -MS	GBL602 -MS	GBL604 -MS	GBL606 -MS	GBL608 -MS	GBL610 -MS	UNITS
Maximum repetitive peak reverse voltage		V _{RRM}	50	100	200	400	600	800	1000	\
Maximum RMS voltage		VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking voltage		VDC	50	100	200	400	600	800	1000	V
Maximum average forward rectified current with heatsink		l(AV)	6.0					Α		
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load		Ігѕм	125.0					А		
Rating for fusing (t=8.3ms, Ta=25 C)		l ² t	93.4						A^2s	
Maximum instantaneous forward voltage at 6.0A		VF	1.10						V	
Maximum DC reverse current at rated DC blocking voltage	T a=25°C Ta=125°C	lR	5.0 500				uА			
Typical junction capacitance (Note 1)		Cì	42.0					pF		
Typical thermal resistance		R _{qJA}	55.0						°C/W	
Operating junction and storage temperature range		ТЈ,Тѕтс	-55 to +150					°C		



Ratings And Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

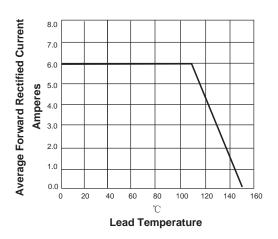


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

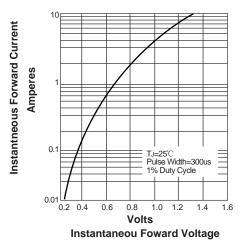


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

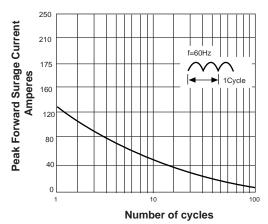
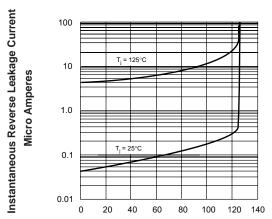


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS

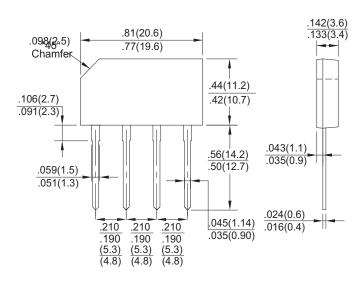


Percent Of Rated Peak Reverse Voltage(%)



PACKAGE MECHANICAL DATA

GBL



Dimensions in inches and (milimeters)

REELSPECIFICATION

P/N	PKG	QTY
GBL6005-MS THRU GBL610-MS	GBL	500

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