# MSKSEMI 美森科













**ESD** 

TSS

MOV

GDT

PLED

## GBL4005-MS THRU GBL410-MS

**Product specification** 





# REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 4.0 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
- Weight: 0.076 ounces , 2.15 grams

## **REFERENCE NEWS**



## Marking

GBL4005-MS	GBL401-MS	GBL402-MS	GBL404-MS
MSKSEMI	MSKSEMI	MSKSEMI	MSKSEMI
GBL4005	GBL401	GBL402	GBL404
+ AC -	+ AC -	+ AC -	+ AC -
GBL406-MS	GBL408-MS	GBL410-MS	
MSKSEMI	MSKSEMI	MSKSEMI	
GBL406	GBL408	GBL410	
+ AC -	+ AC -	+ AC -	

## **GBL4005-MS THRU GBL410-MS**

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

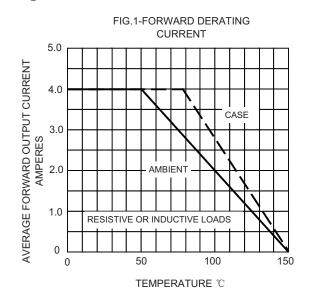
Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz,resistive or inductive load, for capacitive load current derate by 20%.

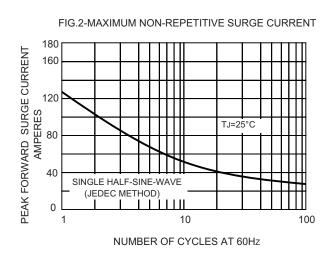
CHARACTERISTICS	SYMBOL	GBL4005 -MS	GBL401 -MS	GBL402 -MS	GBL404 -MS	GBL406 -MS	GBL408 -MS	GBL410 -MS	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average       Forward Rectified         Output Current       @ Ta=50 ℃ (Note1)	I(AV)	4.0					Α		
Peak Forward Surage Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	IFSM	125					А		
Maximum Forward Voltage Drop Per Bridge Element at 4.0A Peak	VF	1.1					V		
Maximum Reverse Current at Rated DC Blocking Voltage	lR	10.0					uA		
Maximum Reverse Current at Rated DC Blocking Voltage @ TA =150℃	lR	1.0				mA			
Operating Temperature Range	TJ	-55 to +150						$^{\circ}$	
Storage Temperature Range	Tstg	-55 to +150					$^{\circ}$		

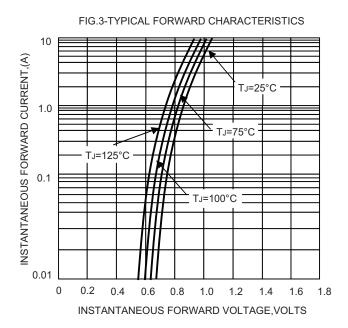
Note:1.Mounting conditions,0.5"lead length maximum.

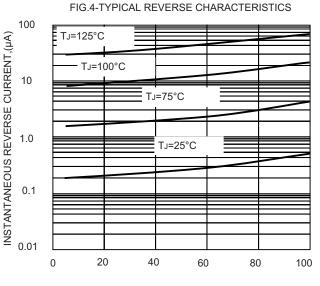


## **Ratings And Characteristic Curves**





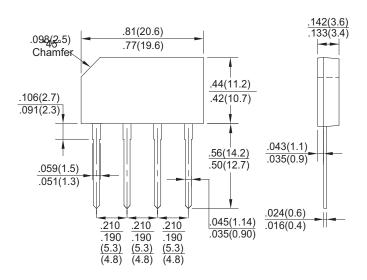






## **PACKAGE MECHANICAL DATA**

### **GBL**



Dimensions in inches and (milimeters)

## REELSPECIFICATION

P/N	PKG	QTY		
GBL4005-MS THRU GBL410-MS	GBL	500		

## **Attention**

- Any and all MSKSEMI Semiconductor products described or contained herein do not have specifications that can handle applications that require extremely high levels of reliability, such as life-support systems, aircraft's control systems, or other applications whose failure can be reasonably expected to result in serious physical and/or material damage. Consult with your MSKSEMI Semiconductor representative nearest you before using any MSKSEMI Semiconductor products described or contained herein in such applications.
- MSKSEMI Semiconductor assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all MSKSEMI Semiconductor products described or contained herein.
- Specifications of any and all MSKSEMI Semiconductor products described or contained herein stipulate the performance, characteristics, and functions of the described products in the independent state, and are not guarantees of the performance, characteristics, and functions of the described products as mounted in the customer's products or equipment. To verify symptoms and states that cannot be evaluated in an independent device, the customer should always evaluate and test devices mounted in the customer'sproducts or equipment.
- MSKSEMI Semiconductor. strives to supply high-quality high-reliability products. However, any and all semiconductor products fail with someprobability. It is possiblethat these probabilistic failures could give rise to accidents or events that could endanger human lives, that could give rise to smoke or fire, or that could cause damage to other property. When designing equipment, adopt safety measures so that these kinds of accidents—or events cannot occur. Such measures include but are not limited to protective circuits anderror prevention circuitsfor safedesign, redundant design, and structural design.
- In the event that any or all MSKSEMI Semiconductor products (including technical data, services) described or contained herein are controlled under any of applicable local export control laws and regulations, such products must not be exported without obtaining the export license from theauthorities concerned in accordance with the above law.
- No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying and recording, or any information storage or retrieval system, or otherwise, without the prior written permission of MSKSEMI Semiconductor.
- Information (including circuit diagrams and circuit parameters) herein is for example only; it is not guaranteed for volume production. MSKSEMI Semiconductor believes information herein is accurate and reliable, but no guarantees are made or implied regarding its use or any infringements of intellectual property rights or other rights of third parties.
- Any and all information described or contained herein are subject to change without notice due to product/technology improvement, etc. Whendesigning equipment, referto the "Delivery Specification" for the MSKSEMI Semiconductor productthat you intend to use.