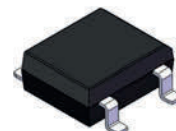
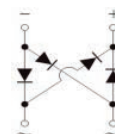


Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction, majority carrier conduction
- Guard ring for over voltage protection
- Low power loss, high efficiency
- High current capability, low forward voltage drop
- High surge capability
- High temperature soldering guaranteed: 260°C/10 seconds at terminals
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC



MBS



Schematic Diagram

Mechanical Data

- Case: MBS molded plastic body
- Epoxy: UL94V-0 rate flame retardant
- Terminals: Plated leads solderable per MIL-STD-750, method 2026
- Mounting position: Any

Maximum Ratings & Electrical Characteristics

(Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, resistive or inductive load.
For capacitive load, derate current by 20%.)

Parameters		Symbols	GMS 22	GMS 23	GMS 24	GMS 25	GMS 26	GMS 28	GMS 210	Units
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	20	30	40	50	60	80	100	V
Maximum RMS Voltage		V _{RMS}	14	21	28	35	42	57	71	V
Maximum DC Blocking Voltage		V _{DC}	20	30	40	50	60	80	100	V
Maximum Average Forward Rectified Current (See Fig.1)		I _(AV)	2.0							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)		I _{FSM}	50							A
Maximum Instantaneous Forward Voltage at 1.0A ¹		V _F	-			-		0.75		V
Maximum Instantaneous Forward Voltage at 2.0A ¹			0.55			0.70		0.85		V
Maximum Instantaneous Reverse Current at Rated DC Blocking Voltage ¹	T _A =25°C	I _R	0.2							mA
	T _A =100°C		20.0							
Typical Thermal Resistance ²		R _{θJA}	75							°C/W
Operating Junction Temperature Range		T _J	-65 to +125							°C
Storage Temperature Range		T _{STG}	-65 to +150							°C

Notes:

- Pulse test: 300us pulse width, 1% duty cycle.
- P.C.B. mounted with 0.2 x 0.2" (5.0 x 5.0mm) copper pad areas.

GMS22 thru GMS210

Surface Mount Schottky Barrier Bridge Rectifiers
 Reverse Voltage 20V to 100V Forward Current 2.0A

Ratings and Characteristics Curves

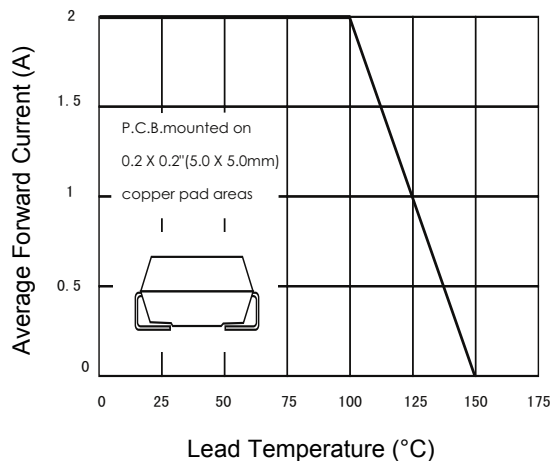


Figure 1. Forward Current Derating Curve

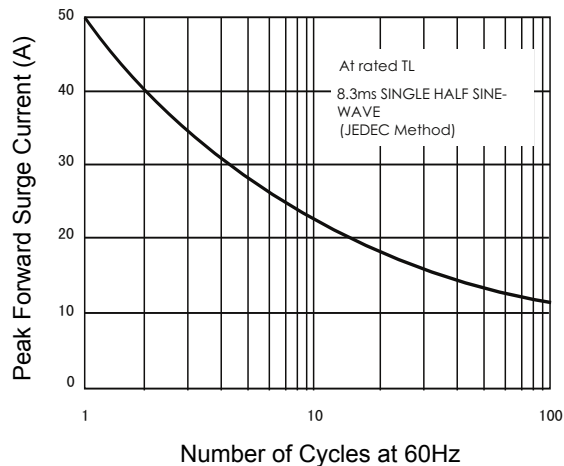


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

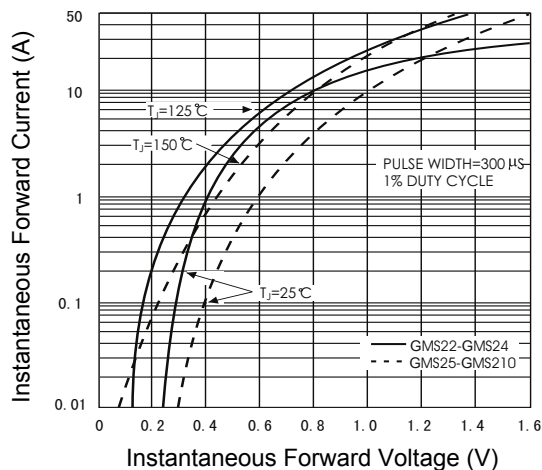


Figure 3. Typical Instantaneous Forward Characteristics

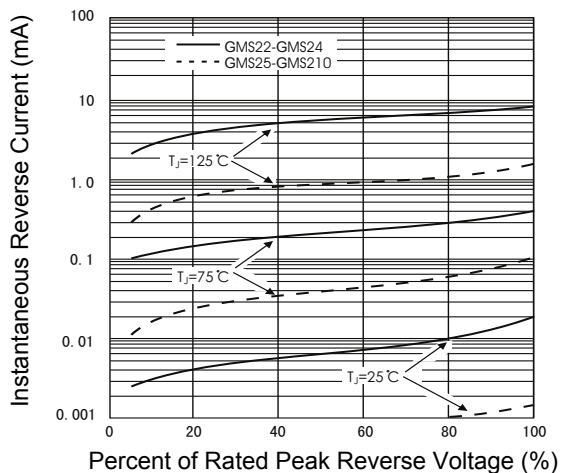


Figure 4. Typical Reverse Characteristics

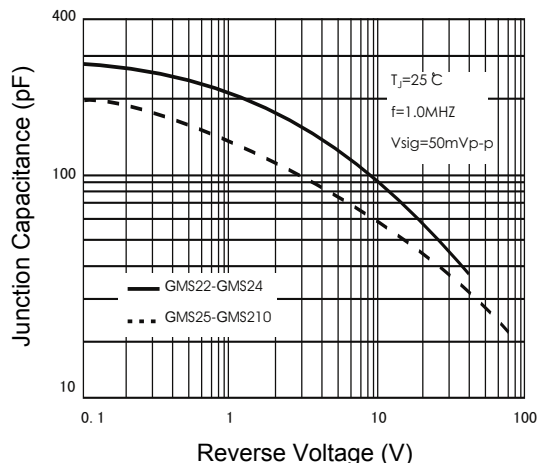
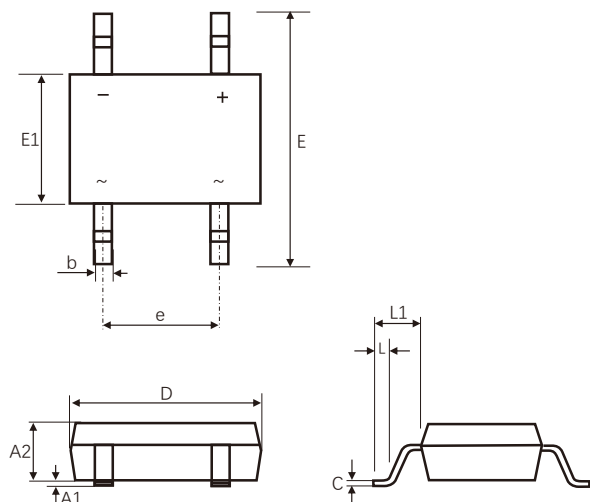


Figure 5. Typical Junction Capacitance

Package Outline Dimensions (MBS)



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A1	-	0.20	-	0.008
A2	2.30	2.70	0.090	0.106
b	0.50	0.80	0.019	0.031
C	0.15	0.35	0.006	0.014
D	4.50	4.90	0.177	0.193
E	6.40	7.00	0.252	0.276
E1	3.60	4.10	0.142	0.161
e	2.30	2.70	0.090	0.106
L	0.70	1.10	0.028	0.043
L1	1.30	1.70	0.051	0.067

Order Information

Device	Package	Marking	Carrier	Quantity
GMS22	MBS	MS22	Tape & Reel	3,000 Pcs / Reel
GMS23	MBS	MS23	Tape & Reel	3,000 Pcs / Reel
GMS24	MBS	MS24	Tape & Reel	3,000 Pcs / Reel
GMS25	MBS	MS25	Tape & Reel	3,000 Pcs / Reel
GMS26	MBS	MS26	Tape & Reel	3,000 Pcs / Reel
GMS28	MBS	MS28	Tape & Reel	3,000 Pcs / Reel
GMS210	MBS	MS210	Tape & Reel	3,000 Pcs / Reel