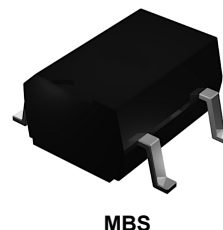


GMS32 thru GMS320

Surface Mount Schottky Bridge Rectifiers
Reverse Voltage 20V to 200V Forward Current 3A

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction, majority carrier conduction
- Guard ring for overvoltage 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 2015/863/EU



MBS

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

Absolute Maximum Ratings and Electrical Characteristics

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

Parameter		Symbol	GMS 32	GMS 34	GMS 36	GMS 38	GMS 310	GMS 315	GMS 320	Unit
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	20	40	60	80	100	150	200	V
Maximum RMS Voltage		V _{RMS}	14	28	42	57	70	105	140	V
Maximum DC Blocking Voltage		V _{DC}	20	40	60	80	100	150	200	V
Maximum Average Forward Rectified Current (See Fig. 1)		I _(AV)	3							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)		I _{FSM}	70							A
Maximum Instantaneous Forward Voltage at 3.0A ¹		V _F	0.55		0.7	0.85		0.95		V
Maximum Instantaneous Reverse Current at Rated DC Blocking Voltage ¹	T _A =25°C	I _R	0.5			0.2				mA
	T _A =125°C		50			20				
Typical Thermal Resistance ²		R _{θJA}	75							°C/W
		R _{θJC}	30							°C/W
Operating Junction Temperature Range		T _J	-55 to +150							°C
Storage Temperature Range		T _{STG}	-55 to +150							°C

Notes:

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

GMS32 thru GMS320

Surface Mount Schottky Bridge Rectifiers
 Reverse Voltage 20V to 200V Forward Current 3A

Ratings and Characteristics Curves

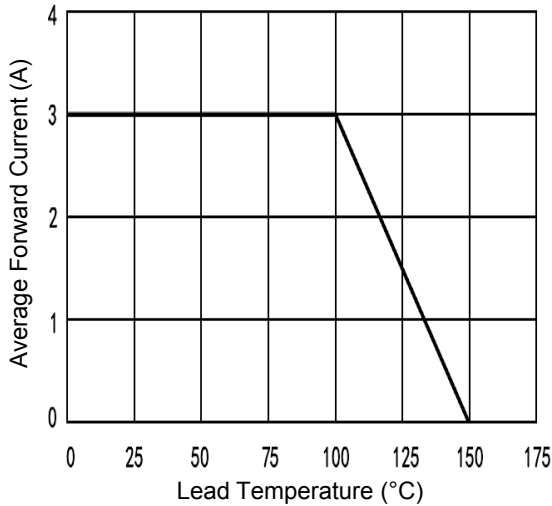


Figure 1. Forward Current Derating Curve

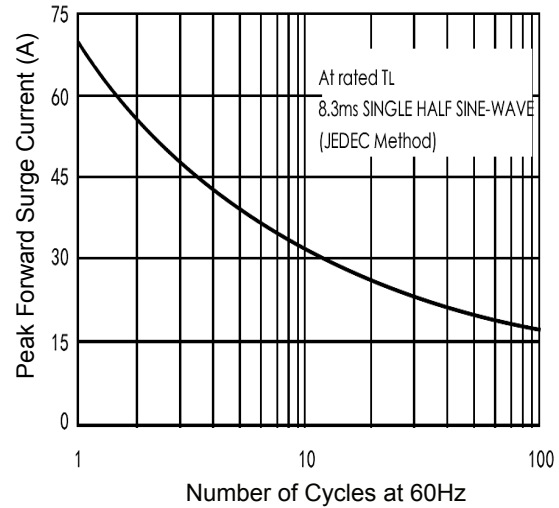


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

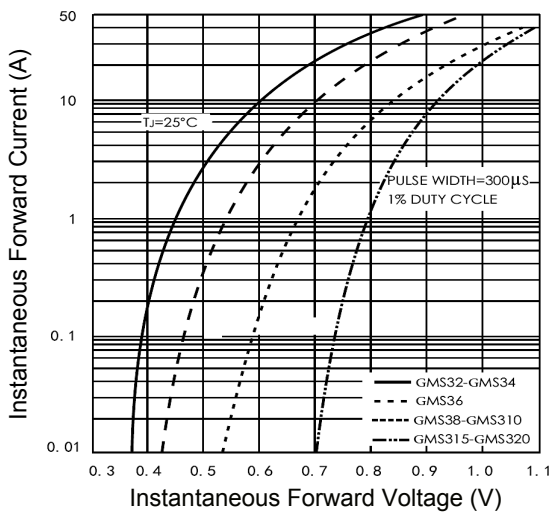


Figure 3. Typical Instantaneous Forward Characteristics

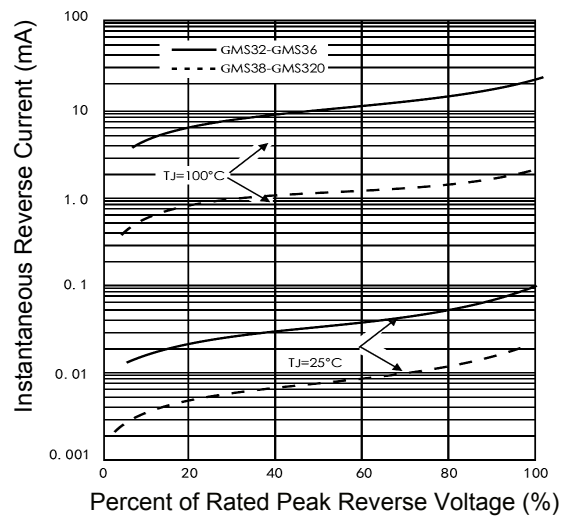
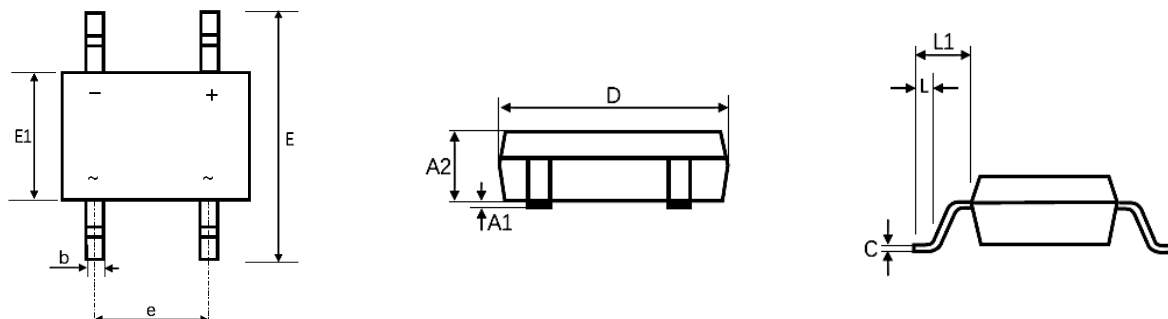


Figure 4. Typical Reverse Characteristics

GMS32 thru GMS320

Surface Mount Schottky Bridge Rectifiers
Reverse Voltage 20V to 200V Forward Current 3A

Package Outline Dimensions (MBS)



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A1	0.05	0.20	0.002	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
GMS32	MBS	MS32	Tape & Reel	3,000 Pcs / Reel
GMS34	MBS	MS34	Tape & Reel	3,000 Pcs / Reel
GMS36	MBS	MS36	Tape & Reel	3,000 Pcs / Reel
GMS38	MBS	MS38	Tape & Reel	3,000 Pcs / Reel
GMS310	MBS	MS310	Tape & Reel	3,000 Pcs / Reel
GMS315	MBS	MS315	Tape & Reel	3,000 Pcs / Reel
GMS320	MBS	MS320	Tape & Reel	3,000 Pcs / Reel

For more information, please contact us at: inquiry@goodarksemi.com