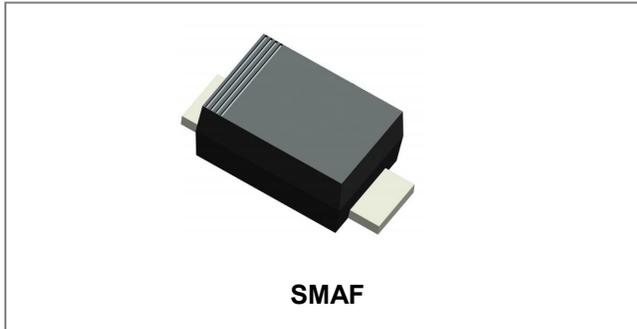


## G1A-G1M 1.0AMP SURFACE MOUNT GLASS RECOVERY RECTIFIER



### Features

- For surface mounted application
- Low forward voltage drop
- High current capability
- High reliability
- Classification Rating 94V-0
- This is a Pb – Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

### Circuit Diagram



### Mechanical Data

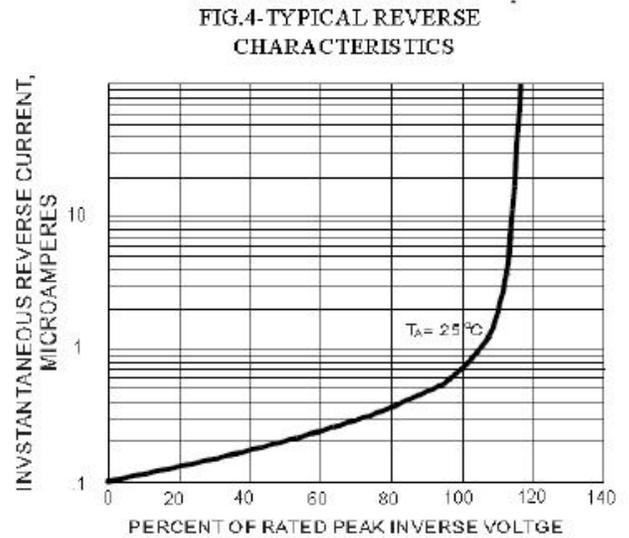
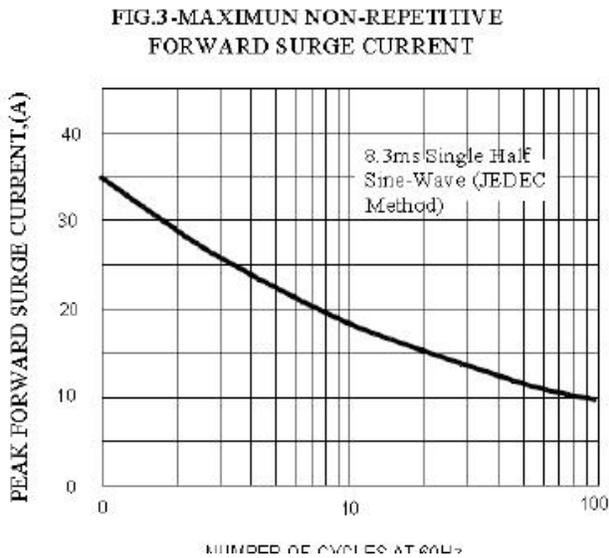
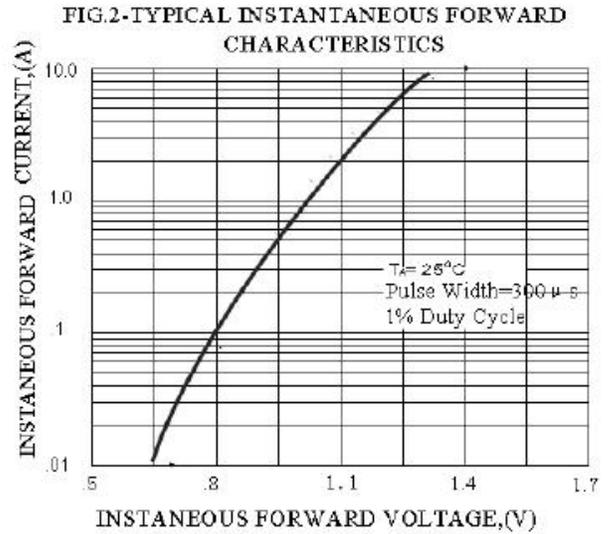
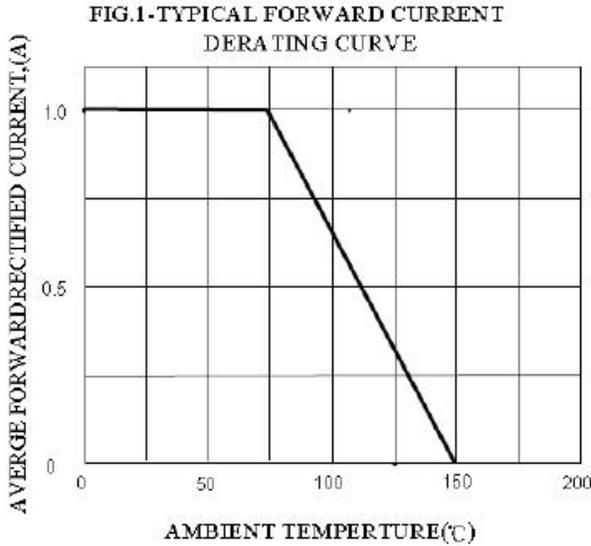
- Case: JEDEC SMAF molded plastic body
- Terminals: leads solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Weight: 0.038 grams
- Mounting Position: Any

### Maximum Ratings and Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified

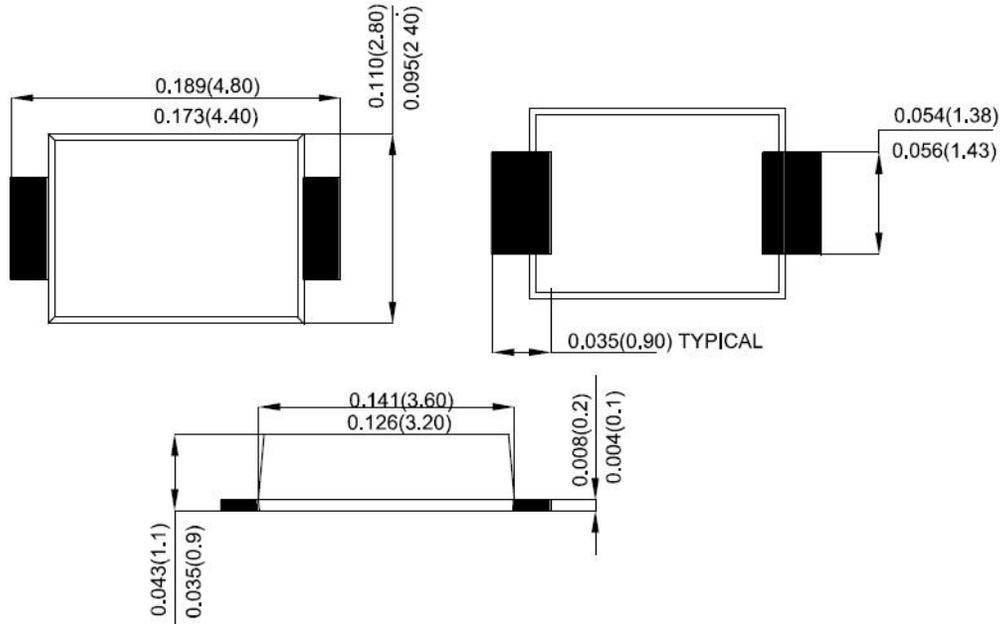
Type Number	Symbol	G1A	G1B	G1D	G1G	G1J	G1K	G1M	Units
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>								
Working Peak Reverse Voltage	V <sub>RWM</sub>	50	100	200	400	600	800	1000	V
DC Blocking Voltage	V <sub>DC</sub>								
RMS Reverse Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Average forward rectified output current @T <sub>A</sub> = 75°C	I <sub>O</sub>	1.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	35							A
Forward Voltage @I <sub>F</sub> = 1.0A	V <sub>F</sub>	1.1							V
Peak Reverse Current @T <sub>A</sub> = 25°C	I <sub>RM</sub>	5.0							µA
At Rated DC Blocking Voltage @T <sub>A</sub> = 100°C		500							
Typical Junction Capacitance (Note 1)	C <sub>J</sub>	12							pF
Typical Thermal Resistance Junction to Ambient (Note 2)	R <sub>θJA</sub>	30							°C/W
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 to +150							°C

Note: 1. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C  
2. Resistance from Junction to Ambient at 0.375(9.5mm) lead length .

**Ratings and Characteristics Curves**



**Mechanical Dimensions SMAF (Millimeters/Inches)**

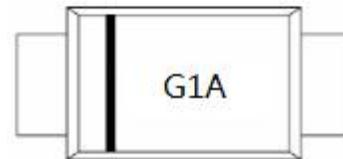


**Ordering Information**

Device	Package	Shipping
G1A THRU G1M	SMAF (Pb-Free)	3000pcs / reel

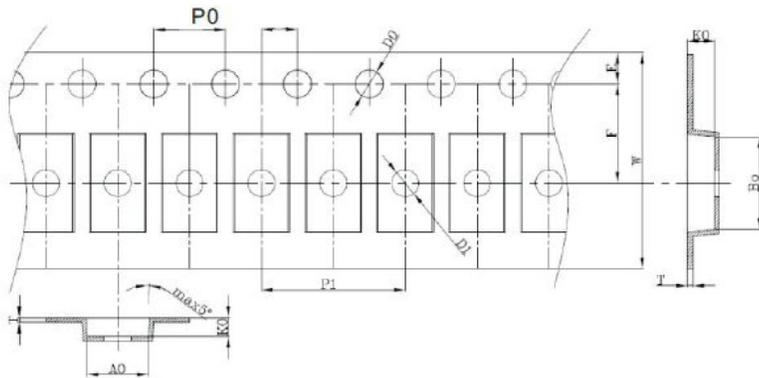
For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

**Marking Diagram**



G1A = Type Number

**Carrier Tape Specification SMAF**



SYMBOL	Millimeters	
	Min.	Max.
A0	2.83	3.03
B0	2.23	5.43
K0	1.23	1.43
P0	3.90	4.10
P1	3.90	4.10
P2	1.90	2.10
T	0.17	0.23
E	1.63	1.83
F	5.45	5.65
D0	1.50	1.60
D1	1.45	1.55
W	11.70	12.30

**Technical Data**  
**Data Sheet N1731, Rev. A**



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