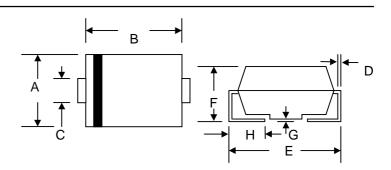


1.0A SURFACE MOUNT GLASS PASSIVATED RECTIFIER

Features

- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Low Forward Voltage Drop
- Surge Overload Rating to 30A Peak
- Low Power Loss
- Built-in Strain Relief
- Plastic Case Material has UL Flammability Classification Rating 94V-O



Mechanical Data

- Case: Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.064 grams (approx.)

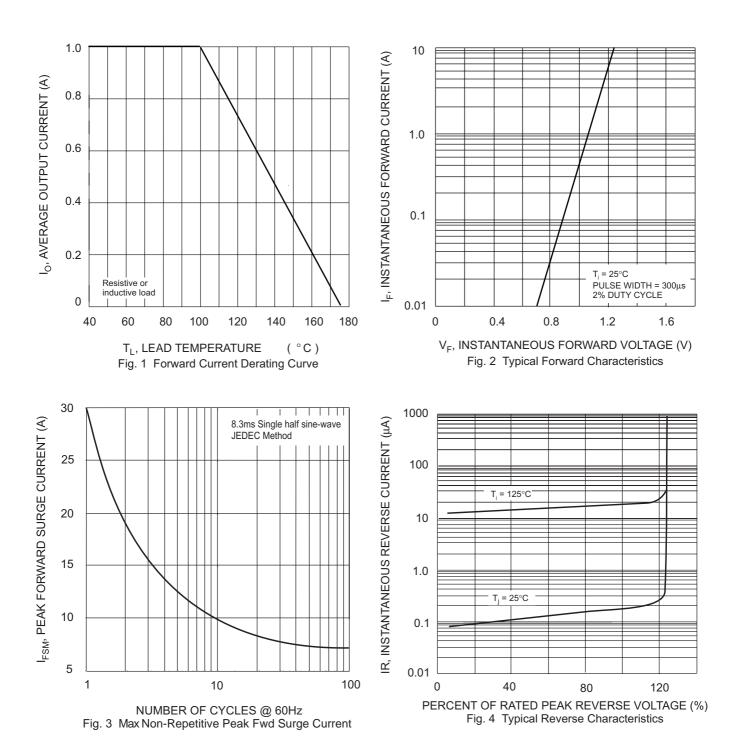
| SMA/DO-214AC | | | | | |
|----------------------|-------|-------|--|--|--|
| Dim | Min | Max | | | |
| Α | 2.50 | 2.90 | | | |
| В | 4.00 | 4.60 | | | |
| С | 1.40 | 1.60 | | | |
| D | 0.152 | 0.305 | | | |
| E | 4.80 | 5.28 | | | |
| F | 2.00 | 2.44 | | | |
| G | 0.051 | 0.203 | | | |
| Н | 0.76 | 1.52 | | | |
| All Dimensions in mm | | | | | |

Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

| Characteristic | | Symbol | GS1A | GS1B | GS1D | GS1G | GS1J | GS1K | GS1M | Unit |
|----------------------------------------------------------------------------------------------------|---------------------------------------------------|--------------------|------|------|------|------------|------|------|------|------|
| Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage | | Vrrm Vrwm Vr | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| RMS Reverse Voltage | | VR(RMS) | 35 | 70 | 140 | 280 | 420 | 560 | 700 | ٧ |
| Average Rectified Output Current | @T _L = 100°C | lo | | | | 1.0 | | | | Α |
| Non-Repetitive Peak Forward Surg 8.3ms Single half sine-wave super rated load (JEDEC Method) | | IFSM | | | | 30 | | | | А |
| Forward Voltage | @I _F = 1.0A | VFM | 1.10 | | | | V | | | |
| Peak Reverse Current At Rated DC Blocking Voltage | @T _A = 25°C @T _A = 125°C | IRM | | | | 5.0 200 | | | | μA |
| Reverse Recovery Time (Note 1) | | trr | | | | 2.5 | | | | μS |
| Typical Junction Capacitance (Not | e 2) | Cj | | | | 15 | | | | pF |
| Typical Thermal Resistance (Note | 3) | R ⊕ JL | | | | 30 | | | | K/W |
| Operating and Storage Temperatu | re Range | Тj, Tsтg | | | - | 65 to +17 | 5 | | | °C |

Note: 1. Measured with $I_F = 0.5A$, $I_R = 1.0A$, $I_{rr} = 0.25A$,

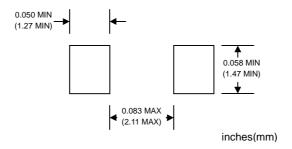
- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.
- 3. Mounted on P.C. Board with 8.0mm² land area.



ORDERING INFORMATION

| Product No.◆ | Package Type | Shipping Quantity | | | | |
|--------------|--------------|-------------------|--|--|--|--|
| GS1A-T1 | SMA | 1800/Tape & Reel | | | | |
| GS1A-T3 | SMA | 5000/Tape & Reel | | | | |
| GS1B-T1 | SMA | 1800/Tape & Reel | | | | |
| GS1B-T3 | SMA | 5000/Tape & Reel | | | | |
| GS1D-T1 | SMA | 1800/Tape & Reel | | | | |
| GS1D-T3 | SMA | 5000/Tape & Reel | | | | |
| GS1G-T1 | SMA | 1800/Tape & Reel | | | | |
| GS1G-T3 | SMA | 5000/Tape & Reel | | | | |
| GS1J-T1 | SMA | 1800/Tape & Reel | | | | |
| GS1J-T3 | SMA | 5000/Tape & Reel | | | | |
| GS1K-T1 | SMA | 1800/Tape & Reel | | | | |
| GS1K-T3 | SMA | 5000/Tape & Reel | | | | |
| GS1M-T1 | SMA | 1800/Tape & Reel | | | | |
| GS1M-T3 | SMA | 5000/Tape & Reel | | | | |

RECOMMENDED FOOTPRINT



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We power your everyday.

Products listed in **bold** are WTE **Preferred** devices.

T1 suffix refers to a 7" reel. T3 suffix refers to a 13" reel.

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.