

## GS1Y-L

### Features

- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Extremely Low Thermal Resistance
- High Temp Soldering: 260°C for 10 Seconds At Terminals
- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)

### Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C

| MCC Catalog Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|--------------------|----------------|----------------------------------------|---------------------|-----------------------------|
| GS1Y-L             | GS1Y           | 1600V                                  | 1120V               | 1600V                       |

### Electrical Characteristics @ 25°C Unless Otherwise Specified

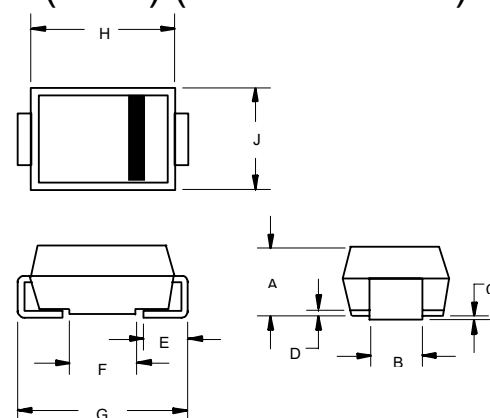
|                                                         |             |                                      |                                                                   |
|---------------------------------------------------------|-------------|--------------------------------------|-------------------------------------------------------------------|
| Average Forward current                                 | $I_{F(AV)}$ | 1.0A                                 | $T_L = 125^\circ\text{C}$                                         |
| Peak Forward Surge Current                              | $I_{FSM}$   | 30A                                  | 8.3ms, half sine,                                                 |
| Maximum Instantaneous Forward Voltage                   | $V_F$       | 1.25V(max)<br>1.10V(typ)             | $I_{FM} = 1.0\text{A};$<br>$T_J = 25^\circ\text{C}^*$             |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | $I_R$       | 5 $\mu\text{A}$<br>100 $\mu\text{A}$ | $T_J = 25^\circ\text{C}$<br>$T_J = 125^\circ\text{C}$             |
| Typical Reverse Recovery Time                           | $T_{RR}$    | 2.5 $\mu\text{s}$                    | $I_F = 0.5\text{A}$<br>$I_R = 1.0\text{A}, I_{RR} = 0.25\text{A}$ |

\*Pulse test: Pulse width 300  $\mu\text{s}$ , Duty cycle 2%

Note 1: High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

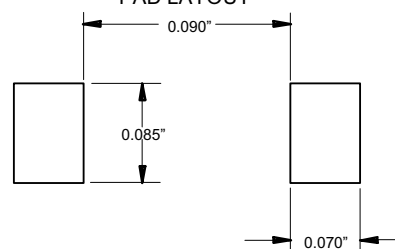
## 1.0 Amp Glass Passivated Rectifier 1600 Volts

### DO-214AC (SMA) (LEAD FRAME)



| DIM | INCHES |      | MM   |      | NOTE |
|-----|--------|------|------|------|------|
|     | MIN    | MAX  | MIN  | MAX  |      |
| A   | .079   | .096 | 2.00 | 2.44 |      |
| B   | .050   | .064 | 1.27 | 1.63 |      |
| C   | ---    | .008 | ---  | .20  |      |
| D   | ---    | .02  | ---  | .51  |      |
| E   | .030   | .060 | .76  | 1.52 |      |
| F   | .065   | .091 | 1.65 | 2.32 |      |
| G   | .189   | .220 | 4.80 | 5.59 |      |
| H   | .157   | .181 | 4.00 | 4.60 |      |
| J   | .090   | .115 | 2.25 | 2.92 |      |

### SUGGESTED SOLDER PAD LAYOUT



## Ordering Information :

| Device   | Packing                 |
|----------|-------------------------|
| GS1Y-LTP | Tape&Reel: 7.5Kpcs/Reel |

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