GSSZ-Z-L

1.0 Amp Glass Passivated Rectifier
2000 Volts

DO-214AC
(SMA) (LEAD FRAME)

Maximum Ratings
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 25°C/W Junction To Lead

Features
- Halogen free available upon request by adding suffix "-HF"
- 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
- Maximum Thermal Resistance; 25°C/W Junction To Lead

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward current $I_{F(AV)}$ 1.0A $T_L = 110°C$

Peak Forward Surge Current $I_{FSM}$ 30A 8.3ms, half sine,

Maximum Instantaneous Forward Voltage $V_F$ 1.15V $I_{FM} = 1.0A; T_J = 25°C^*$

Maximum DC Reverse Current At Rated DC Blocking Voltage $I_R$ 1µA 50µA $T_J = 25°C; T_J = 100°C$

Typical Reverse Recovery Time $T_{rr}$ 2500ns $I_{F}=0.5A; I_{R}=1.0A, I_{r}=0.25A$

*S* Pulse test: Pulse width 300 µsec, Duty cycle 2%


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Figure 1
Typical Reverse Characteristics

Instantaneous Reverse Current - Micro Amps versus Percent Of Rated Peak Reverse Voltage - Volts

Figure 2
Forward Derating Curve

Single Phase, Half Wave 60Hz Resistive or Inductive Load

Average Forward Rectified Current - Amperes versus Lead Temperature - °C

Figure 3
Peak Forward Surge Current

Peak Forward Surge Current - Amperes versus Number Of Cycles At 60Hz - Cycles
Ordering Information:

<table>
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<tr>
<th>Device</th>
<th>Packing</th>
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<tr>
<td>GS1Z-LTP</td>
<td>Tape&amp;Reel: 7.5Kpcs/Reel</td>
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Note: Adding “-HF” suffix for halogen free, eg. GS1Z-LTP-HF

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