

Glass Passivated Surface Mount Rectifier Reverse Voltage: 1200V Forward Current: 3A

Features

- Glass passivated junction chip
- For surface mounted application
- Low forward voltage drop
- Low profile package
- Built-in strain relief, ideal for automated placement
- Fast switching for high efficiency
- High temperature soldering: 260°C/10 seconds at terminals
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0



DO-214AB (SMC)

Mechanical Data

Case: Molded plasticTerminals: Solder plated

Polarity: Indicated by cathode endWeight: 0.009 ounce, 0.25gram

Absolute Maximum Ratings (T_A=25°C unless otherwise noted)

| Paraemter | Symbol | GN3O | Unit | |
|---|-----------------------------------|-------------|------|--|
| Maximum Repetitive Peak Reverse Voltage | V_{RRM} | 1200 | V | |
| Maximum RMS Voltage | V _{RMS} | 840 | V | |
| Maximum DC Blocking Voltage | V _{DC} | 1200 | V | |
| Maximum Average Forward Rectified Current at T _L =103°C | I _{F(AV)} | 3.0 | Α | |
| Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method) T _L =75°C | I _{FSM} | 100.0 | Α | |
| Typical Thermal Resistance per Case ¹ | R _{0JA} | 47 | °C/W | |
| | R _{θJI} | 13 | | |
| Operating Junction and Storage Temperature Range | T _J , T _{STG} | -55 to +150 | °C | |

Electrical Characteristics (T_A=25°C unless otherwise noted)

| Parameter | Test Conditions | Symbol | GN3O | Unit |
|---|--|-----------------|------|------|
| Maximum Instantaneous Forward Voltage | I _F =3.0A | V _F | 1.25 | V |
| Maximum DC Reverse Current at Rated DC Blocking Voltage | T _A =25°C | I _R | 10.0 | uA |
| | T _A =125°C | | 250 | |
| Typical Reverse Recovery Time | I _F =0.5A;I _R =1.0A;I _{rr} =0.25A | t _{rr} | 1.0 | uS |
| Typical Junction Capacitance | 4.0V, 1MHz | CJ | 60 | pF |

Notes:

^{1.} Thermal resistance form junction to ambient and from junction to lead frame P.C.B. mounted on 0.3×0.3"(8.0×8.0mm) copper pad areas.



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Typical Characteristics Curves

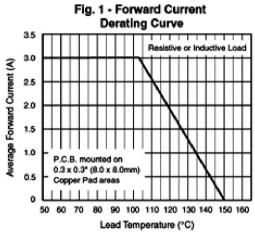


Fig. 3 - Typical Instantaneous Forward Characteristics

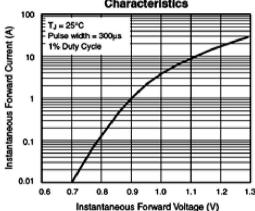


Fig. 5 - Typical Junction Capacitance

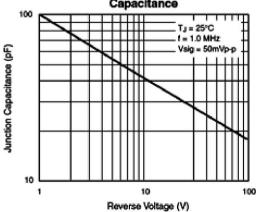


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

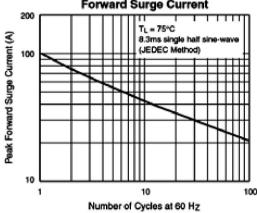


Fig. 4 - Typical Reverse Characteristics

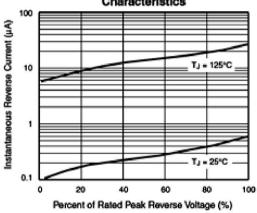
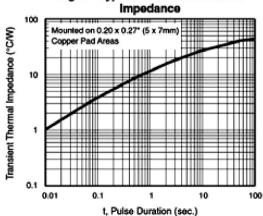


Fig. 6 - Typical Transient Thermal

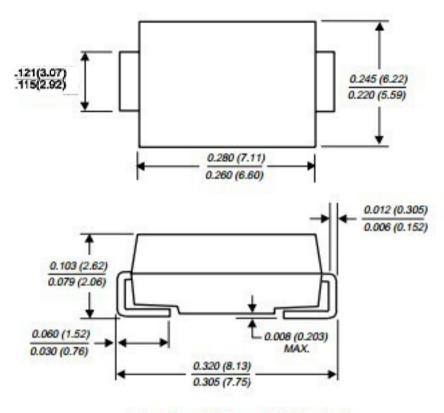




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Package outline Dimensions DO-214AB (SMC)



Dimensions in inches and (millimeters)