



# GS5AB THRU GS5MB

## Surface Mount General Purpose Rectifier

### Features

- Low profile package
- Ideal for automated placement
- Glass passivated chip junction
- High forward surge capability
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C

### Typical Applications

For use in general purpose rectification of power supplies, inverters, converters, and freewheeling diodes for consumer, and telecommunication.

### Mechanical Data

**Package:** DO-214AA (SMB)

Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free

**Terminals:** Tin plated leads, solderable M á rD¼fM- D

### Maximum Ratings (Ta=25 Unless otherwise s

|   |           |  |  |  |  |  |  |  |  |  |  |  |
|---|-----------|--|--|--|--|--|--|--|--|--|--|--|
| Maximum Repetitive peak reverse voltage | $V_{RRM}$ |  |  |  |  |  |  |  |  |  |  |  |
|---|-----------|--|--|--|--|--|--|--|--|--|--|--|

|  |           |                  |            |
|--|-----------|------------------|------------|
| Forward Surge Current (Non-repetitive)<br>@60Hz Half-sine wave, 1 cycle, Tj=25 | $I_{FSM}$ | A                | 150        |
| Forward Surge Current (Non-repetitive)<br>@1ms, square wave, 1 cycle, Tj=25    |           |                  | 300        |
| Current squared time<br>@1ms t 8.3ms Tj=25                                     | $I^2t$    | A <sup>2</sup> s | 94         |
| Storage temperature  | $T_{stg}$ |                  | -55 ~ +150 |
| Junction temperature   | $T_j$     |                  | -55 ~ +150 |

### Electrical Characteristics Ta=25 Unless otherwd

| PA  | METE | SYMBOL | UNI | TEST CONDITIONS | GS5AB | GS5BB | GS5DB | GS5GB | GS5JB | GS5KB | GS5MB |
|---|------|--------|-----|-----------------|-------|-------|-------|-------|-------|-------|-------|
| Maximum instantaneous forward voltage                   |      | $V_F$  | V   | $I_{FM}=5.0A$   |       |       |       | 1.1   |       |       |       |
| Maximum DC reverse current at rated DC blocking voltage |      | $I_R$  |     |                 |       |       |       |       |       |       |       |



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**Thermal Characteristics**     $T_a=25$     Unless otherwise specified





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## Ordering Information (Example)

| PREFERRED P/N | PACKING CODE | UNIT WEIGHT(g) | MINIMUM PACKAGE(pcs) |  |
|---------------|--------------|----------------|----------------------|--|
|               |              |                |                      |  |



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## Suggested pad layout

| DO-214AA(SMB) |             |
|---------------|-------------|
| Dim           | Millimeters |



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