

GS8A~GS8M

GENERAL PURPOSE RECTIFIER

Rev.0.2

DESCRIPTION

- Plastic package has underwriters laboratories flammability classification 94V-0
- For surface mounted applications other than (Resipal 25) ambient temperature unless otherwise specified

| Parameter | Symbol | GS8A | GS8B | GS8D | GS8G | GS8J | GS8K | GS8M | Unit |
|--|-------------|------|------|------|------|------|------|------|------|
| Maximum repetitive peak reverse voltage | V_{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS voltage | V_{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC blocking voltage | V_{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum average forward current at $T_L=75$ | $I_{F(AV)}$ | 8.0 | | | | | | | A |
| Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load | I_{FSM} | 200 | | | | | | | A |
| Maximum forward voltage @ $I_F=8.0A$ | V_F | 1.1 | | | | | | | V |
| Maximum DC reverse current at rated DC blocking voltage | $T_j=25$ | 5.0 | | | | | | | A |
| | $T_j=150$ | 1.0 | | | | | | | mA |

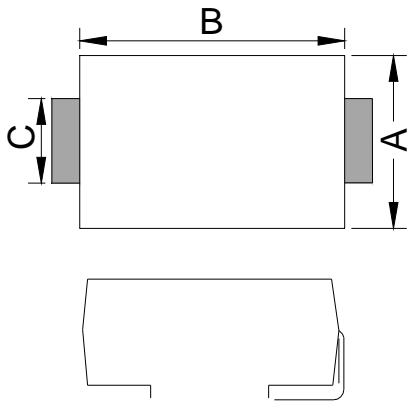
THERMAL RESISTANCES

| Symbol | Parameter | GS8A | GS8B | GS8D | GS8G | GS8J | GS8K | GS8M | Unit | |
|---------------|--------------------------|------|------|------|------|------|------|------|------|----|
| $R_{th(j-L)}$ | Junction to lead (note1) | 12 | | | | | | | | /W |

Note1 Thermal resistance from junction to lead mounted on P.C.B. with 8.0 mm x 8.0 mm copper pad areas.

MARKING

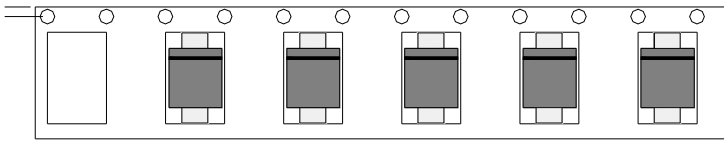
PACKAGE MECHANICAL DATA



| | Dimensions | | | |
|--|-------------|--|------|-------|
| | Millimeters | | Ref. | |
| | | | | Min. |
| | | | A | 5.75 |
| | | | B | 6.90 |
| | | | C | 2.75 |
| | | | D | 0.95 |
| | | | E | 7.70 |
| | | | F | 0.051 |
| | | | G | 0.15 |

DO-214AB (SMC)

TAPE AND REEL SPECIFICATION-SMC



CHARACTERISTICS CURVE

| | |
|---|---|
| <p>FIG.1: Typical forward characteristics (25)</p> | <p>FIG.2: Typical reverse characteristics</p> |
| <p>9) 9</p> | |
| <p>FIG.3: Maximum non-repetitive peak forward surge current</p> | <p>FIG.4: Forward current derating curve</p> |
| | |

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