GF1A, GF1B, GF1D, GF1G, GF1J, GF1K, GF1M

Vishay General Semiconductor

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| ELECTRICAL CHARACTERISTICS (T _A = 25 °C unless otherwise noted) | | | | | | | | | | | |
|---|--|-------------------------|-----------------|---------|------|------|------|------|------|------|------|
| PARAMETER | TEST CONDITIONS | | SYMBOL | GF1A | GF1B | GF1D | GF1G | GF1J | GF1K | GF1M | UNIT |
| Max. instantaneous forward voltage | 1.0 A | | V _F | 1.1 1.2 | | | .2 | V | | | |
| Max. DC reverse current at | | T _A = 25 °C | 1_ | 5.0 | | | | | | | |
| rated DC blocking voltage | | T _A = 125 °C | IR | 50 | | | | | | | μA |
| Typical reverse recovery time | $I_F = 0.5 \text{ A}, I_R = 1.0 \text{ A},$ $I_{rr} = 0.25 \text{ A}$ | | t _{rr} | 2.0 | | | | | | μs | |
| Typical junction capacitance | 4.0 V, 1 MHz | | CJ | 15 | | | | | | pF | |

| THERMAL CHARACTERISTICS (T _A = 25 °C unless otherwise noted) | | | | | | | | | |
|---|-----------------|------|------|------|------|------|------|------|------|
| PARAMETER | SYMBOL | GF1A | GF1B | GF1D | GF1G | GF1J | GF1K | GF1M | UNIT |
| Typical thermal resistance (1) | $R_{\theta JA}$ | 80 | | | | | | | °C/W |
| Typical thermal resistance (9) | $R_{\theta JL}$ | 26 | | | | | | | |

Note

⁽¹⁾ Thermal resistance from junction to ambient and from junction to lead, PCB mounted on 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas

| ORDERING INFORMATION (Example) | | | | | | | | |
|--------------------------------|-----------------|------------------------|---------------|------------------------------------|--|--|--|--|
| PREFERRED P/N | UNIT WEIGHT (g) | PREFERRED PACKAGE CODE | BASE QUANTITY | DELIVERY MODE | | | | |
| GF1J-E3/67A | 0.104 | 67A | 1500 | 7" diameter plastic tape and reel | | | | |
| GF1J-E3/5CA | 0.104 | 5CA | 6500 | 13" diameter plastic tape and reel | | | | |
| GF1JHE3_A/H (1) | 0.104 | Н | 1500 | 7" diameter plastic tape and reel | | | | |
| GF1JHE3_A/I (1) | 0.104 | I | 6500 | 13" diameter plastic tape and reel | | | | |

Note

RATINGS AND CHARACTERISTICS CURVES (T_A = 25 °C unless otherwise noted)

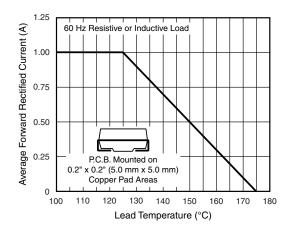


Fig. 1 - Forward Current Derating Curve

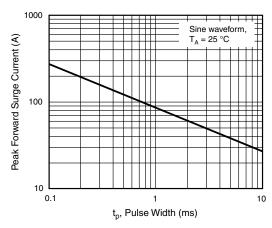


Fig. 2 - Non-Repetitive Peak Forward Surge Current

⁽¹⁾ AEC-Q101 qualified

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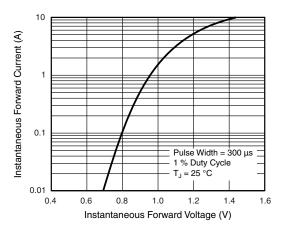


Fig. 3 - Typical Instantaneous Forward Characteristics

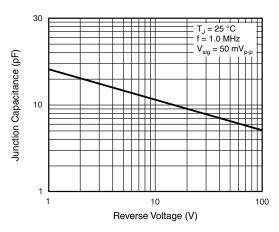


Fig. 5 - Typical Junction Capacitance

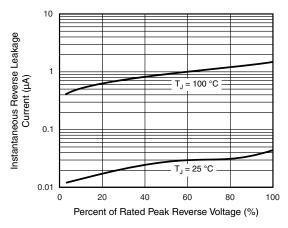


Fig. 4 - Typical Reverse Characteristics

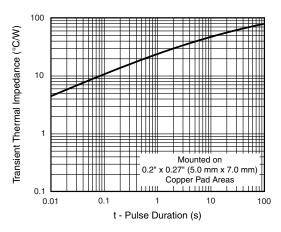
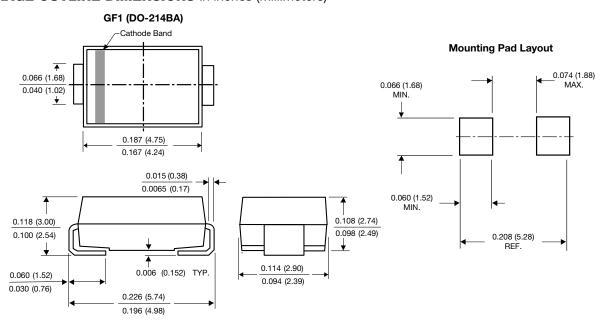


Fig. 6 - Typical Transient Thermal Impedance

PACKAGE OUTLINE DIMENSIONS in inches (millimeters)





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GF1A-E3/2KA GF1A-E3/51A GF1A-E3/69A GF1B/17- GF1B/17A GF1B/2J- GF1B/67A GF1B-E3/19A GF1B-E3/1A
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GF1DHE3/69A GF1G/1- GF1G/17- GF1G/17A GF1G/19- GF1G/19A GF1G/67A GF1G-E3/17A GF1G-E3/19A
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GF1DHE3_A/H GF1DHE3_A/I GF1G-7000HE3_A/I GF1G-7002HE3_A/H GF1G-9HE3_A/I GF1G-9HE3_A/H GF1G-9HE3_A/I GF1G-9HE3_A/I GF1G-9HE3_A/I GF1G-9HE3_A/I GF1G-9HE3_A/I GF1G-9HE3_A/I GF1G-9HE3_A/I GF1G-9HE3_A/I