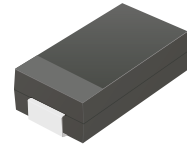


ACZRC5340B-G Thru. ACZRC5388B-G

Voltage: 6.0 to 200 Volts

Power: 5 Watts

RoHS Device

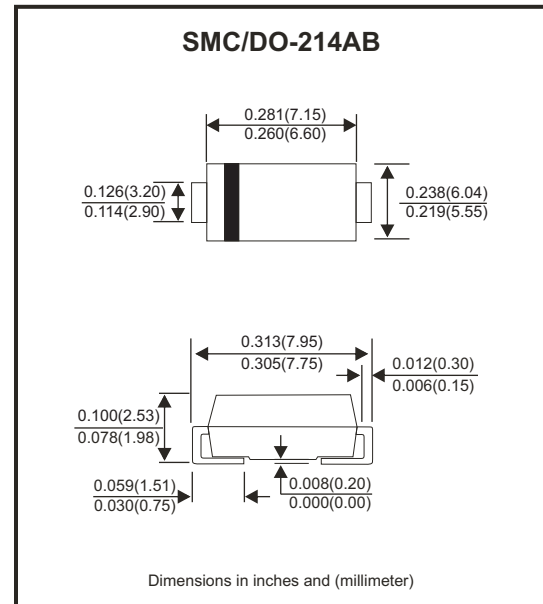


Features

- Glass passivated chip.
- Low leakage.
- Built-in strain relief.
- Low inductance.
- High peak reverse power dissipation.
- For use in stabilizing and clipping circuits with high power.
- Comply with AEC-Q101

Mechanical data

- Case: DO-214AB(SMC), Molded plastic.
- Epoxy: UL 94V-0 rate flame retardant.
- Terminals: Solderable per MIL-STD-750 ,method 2026 guranteed.
- Polarity: Color band denotes cathode end.
- Mounting position: Any.
- Weight: 0.230 gram (approx.)



Circuit diagram



Maximum Ratings (TA=25°C unless otherwise noted)

| Parameter | Symbol | Value | Units |
|---|--------|-------------|-------|
| DC power dissipation at TL = 75°C (Note1) | PD | 5 | W |
| Maximun forward voltage at IF=1A | VF | 1.2 | V |
| Junction temperature range | TJ | -55 to +150 | °C |
| Storage temperature range | TSTG | -55 to +150 | °C |

Note:

(1) Mounted on 5.0mm² (1oz thick) land areas, lead temperature at TL=75°C.

RATING AND CHARACTERISTIC CURVES (ACZRC5340B-G Thru. ACZRC5388B-G)

Fig.1 - Power temperature derating current

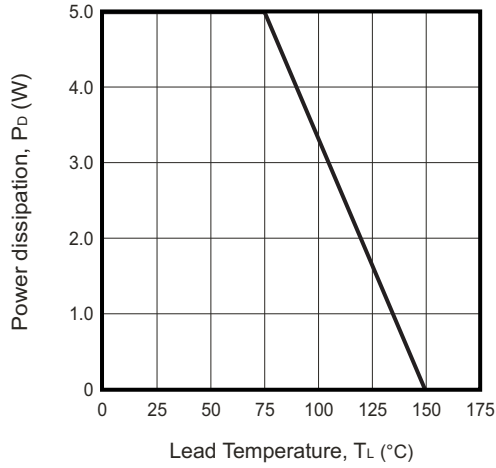


Fig.2 - Temperature coefficients v.s. Zener voltage

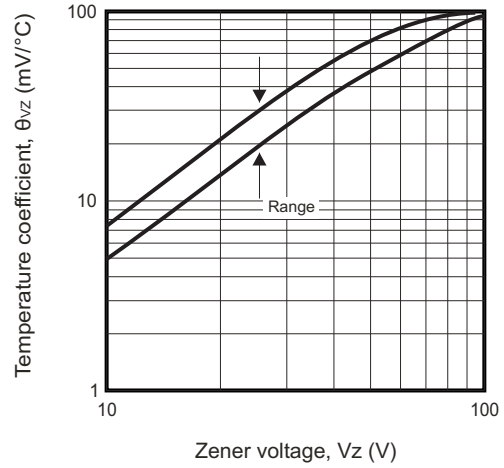


Fig.3 - Typical thermal resistance v.s. lead length

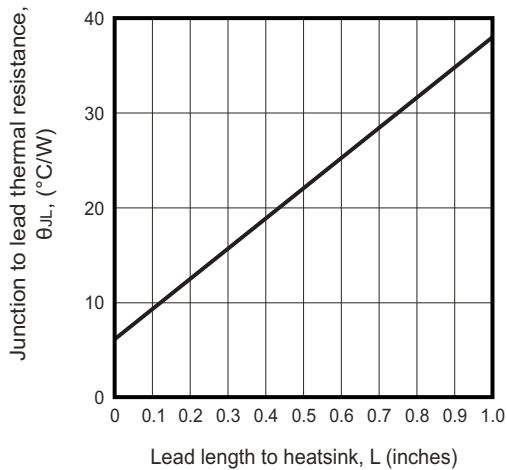


Fig.4 - Maximum surge power

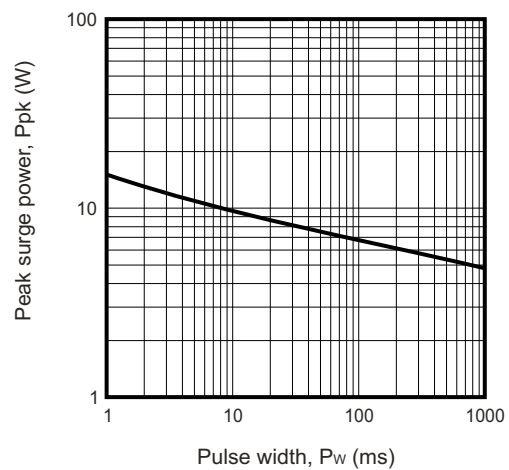
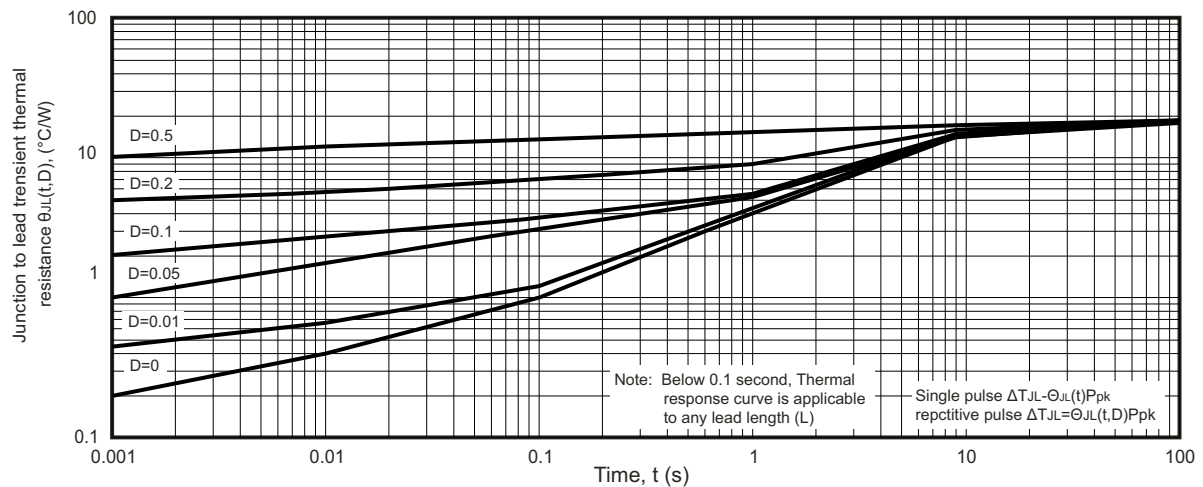


Fig.5- Typical thermal response L , lead length=3/8 inch



Company reserves the right to improve product design, functions and reliability without notice.

REV: D

Electrical Characteristics (at TA=25°C unless otherwise specified)

| Part Number | Nominal Zener Voltage | | Maximum Zener Impedance | | | Maximum Reverse Leakage Current | | Maximum DC Zener Current | Marking Code |
|--------------|-----------------------|------|-------------------------|-----------|------|---------------------------------|------|--------------------------|--------------|
| | Vz @ IzT | IzT | ZzT @ IzT | Zzk @ Izk | Izk | Ir @ VR | | IzM | |
| | (V) | (mA) | (Ohm) | (Ohm) | (mA) | (uA) | (V) | (mA) | |
| ACZRC5340B-G | 6.0 | 200 | 1.0 | 300 | 1 | 1.0 | 3.0 | 790.0 | 340B |
| ACZRC5341B-G | 6.2 | 200 | 1.0 | 200 | 1 | 1.0 | 3.0 | 765.0 | 341B |
| ACZRC5342B-G | 6.8 | 175 | 1.0 | 200 | 1 | 10.0 | 5.2 | 700.0 | 342B |
| ACZRC5343B-G | 7.5 | 175 | 1.5 | 200 | 1 | 10.0 | 5.7 | 630.0 | 343B |
| ACZRC5344B-G | 8.2 | 150 | 1.5 | 200 | 1 | 10.0 | 6.2 | 580.0 | 344B |
| ACZRC5345B-G | 8.7 | 150 | 2.0 | 200 | 1 | 10.0 | 6.6 | 545.0 | 345B |
| ACZRC5346B-G | 9.1 | 150 | 2.0 | 150 | 1 | 7.5 | 6.9 | 520.0 | 346B |
| ACZRC5347B-G | 10.0 | 125 | 2.0 | 125 | 1 | 5.0 | 7.6 | 475.0 | 347B |
| ACZRC5348B-G | 11.0 | 125 | 2.5 | 125 | 1 | 5.0 | 8.4 | 430.0 | 348B |
| ACZRC5349B-G | 12.0 | 100 | 2.5 | 125 | 1 | 2.0 | 9.1 | 395.0 | 349B |
| ACZRC5350B-G | 13.0 | 100 | 2.5 | 100 | 1 | 1.0 | 9.9 | 365.0 | 350B |
| ACZRC5351B-G | 14.0 | 100 | 2.5 | 75 | 1 | 1.0 | 10.6 | 340.0 | 351B |
| ACZRC5352B-G | 15.0 | 75 | 2.5 | 75 | 1 | 1.0 | 11.5 | 315.0 | 352B |
| ACZRC5353B-G | 16.0 | 75 | 2.5 | 75 | 1 | 1.0 | 12.2 | 295.0 | 353B |
| ACZRC5354B-G | 17.0 | 70 | 2.5 | 75 | 1 | 0.5 | 12.9 | 280.0 | 354B |
| ACZRC5355B-G | 18.0 | 65 | 2.5 | 75 | 1 | 0.5 | 13.7 | 265.0 | 355B |
| ACZRC5356B-G | 19.0 | 65 | 3.0 | 75 | 1 | 0.5 | 14.4 | 250.0 | 356B |
| ACZRC5357B-G | 20.0 | 65 | 3.0 | 75 | 1 | 0.5 | 15.2 | 237.0 | 357B |
| ACZRC5358B-G | 22.0 | 50 | 3.5 | 75 | 1 | 0.5 | 16.7 | 216.0 | 358B |
| ACZRC5359B-G | 24.0 | 50 | 3.5 | 100 | 1 | 0.5 | 18.2 | 198.0 | 359B |
| ACZRC5360B-G | 25.0 | 50 | 4.0 | 110 | 1 | 0.5 | 19.0 | 190.0 | 360B |
| ACZRC5361B-G | 27.0 | 50 | 5.0 | 120 | 1 | 0.5 | 20.6 | 176.0 | 361B |
| ACZRC5362B-G | 28.0 | 50 | 6.0 | 130 | 1 | 0.5 | 21.2 | 170.0 | 362B |
| ACZRC5363B-G | 30.0 | 40 | 8.0 | 140 | 1 | 0.5 | 22.8 | 158.0 | 363B |
| ACZRC5364B-G | 33.0 | 40 | 10.0 | 150 | 1 | 0.5 | 25.1 | 144.0 | 364B |
| ACZRC5365B-G | 36.0 | 30 | 11.0 | 160 | 1 | 0.5 | 27.4 | 132.0 | 365B |
| ACZRC5366B-G | 39.0 | 30 | 14.0 | 170 | 1 | 0.5 | 29.7 | 122.0 | 366B |
| ACZRC5367B-G | 43.0 | 30 | 20.0 | 190 | 1 | 0.5 | 32.7 | 110.0 | 367B |
| ACZRC5368B-G | 47.0 | 25 | 25.0 | 210 | 1 | 0.5 | 35.8 | 100.0 | 368B |
| ACZRC5369B-G | 51.0 | 25 | 27.0 | 230 | 1 | 0.5 | 38.8 | 93.0 | 369B |
| ACZRC5370B-G | 56.0 | 20 | 35.0 | 280 | 1 | 0.5 | 42.6 | 86.0 | 370B |
| ACZRC5371B-G | 60.0 | 20 | 40.0 | 350 | 1 | 0.5 | 45.5 | 79.0 | 371B |
| ACZRC5372B-G | 62.0 | 20 | 42.0 | 400 | 1 | 0.5 | 47.1 | 76.0 | 372B |
| ACZRC5373B-G | 68.0 | 20 | 44.0 | 500 | 1 | 0.5 | 51.7 | 70.0 | 373B |
| ACZRC5374B-G | 75.0 | 20 | 45.0 | 620 | 1 | 0.5 | 56.0 | 63.0 | 374B |
| ACZRC5375B-G | 82.0 | 15 | 65.0 | 720 | 1 | 0.5 | 62.2 | 58.0 | 375B |
| ACZRC5376B-G | 87.0 | 15 | 75.0 | 760 | 1 | 0.5 | 66.0 | 54.5 | 376B |
| ACZRC5377B-G | 91.0 | 15 | 75.0 | 760 | 1 | 0.5 | 69.2 | 52.5 | 377B |

Notes:

- (1) The type number listed have a standard tolerance on the nominal zener voltage of $\pm 5\%$.
- (2) The reverse surge current is a non-repetitive, 8.3ms pulse width square wave or equivalent sine-wave superimposed on IzT per JEDEC Method.

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REV: D

Electrical Characteristics (at TA=25°C unless otherwise specified)

| Part Number | Nominal Zener Voltage | | Maximum Zener Impedance | | | Maximum Reverse Leakage Current | | Maximum DC Zener Current | Marking Code |
|--------------|-----------------------|------|-------------------------|-----------|------|---------------------------------|-------|--------------------------|--------------|
| | Vz @ IZT | IZT | ZzT @ IZT | ZzK @ IZK | IZK | IR @ VR | | IZM | |
| | (V) | (mA) | (Ohm) | (Ohm) | (mA) | (uA) | (V) | (mA) | |
| ACZRC5378B-G | 100.0 | 12 | 90.0 | 800 | 1 | 0.5 | 76.0 | 47.5 | 378B |
| ACZRC5379B-G | 110.0 | 12 | 125.0 | 1000 | 1 | 0.5 | 83.6 | 43.0 | 379B |
| ACZRC5380B-G | 120.0 | 10 | 170.0 | 1150 | 1 | 0.5 | 91.2 | 39.5 | 380B |
| ACZRC5381B-G | 130.0 | 10 | 190.0 | 1250 | 1 | 0.5 | 98.8 | 36.6 | 381B |
| ACZRC5382B-G | 140.0 | 8 | 230.0 | 1500 | 1 | 0.5 | 106.0 | 34.0 | 382B |
| ACZRC5383B-G | 150.0 | 8 | 330.0 | 1500 | 1 | 0.5 | 114.0 | 31.6 | 383B |
| ACZRC5384B-G | 160.0 | 8 | 350.0 | 1650 | 1 | 0.5 | 122.0 | 29.4 | 384B |
| ACZRC5385B-G | 170.0 | 8 | 380.0 | 1750 | 1 | 0.5 | 129.0 | 28.0 | 385B |
| ACZRC5386B-G | 180.0 | 5 | 430.0 | 1750 | 1 | 0.5 | 137.0 | 26.4 | 386B |
| ACZRC5387B-G | 190.0 | 5 | 450.0 | 1850 | 1 | 0.5 | 144.0 | 25.0 | 387B |
| ACZRC5388B-G | 200.0 | 5 | 480.0 | 1850 | 1 | 0.5 | 152.0 | 23.6 | 388B |

Notes:

- (1) The type number listed have a standard tolerance on th nominal zener voltage of $\pm 5\%$.
- (2) The reverse surge current is a non-repetitive,8.3ms pulse width square wave or equivalent sine-wave superimposed on IZT per JEDEC Method.

Reel Taping Specification



| DO-214AB (SMC) | SYMBOL | A | B | C | d | T | D | D ₁ | D ₂ |
|-------------------|--------|------------|---|---|---------------|--------------|--------|----------------|---|
| | (mm) | See Note 1 | | | 1.55 ± 0.05 | 0.40 (Max.) | 330.00 | 50.00 (Min.) | 13.00 ^{+0.50} _{-0.20} |
| | (inch) | See Note 1 | | | 0.061 ± 0.002 | 0.016 (Max.) | 13.000 | 1.969 (Min.) | 0.512 ^{+0.020} _{-0.008} |

| DO-214AB (SMC) | SYMBOL | E | F | P | P ₀ | P ₁ | W | W ₁ | W ₂ |
|-------------------|--------|---------------|---------------|---------------|----------------|----------------|---------------|---|----------------|
| | (mm) | 1.75 ± 0.10 | 7.50 ± 0.05 | 8.00 ± 0.10 | 4.00 ± 0.10 | 2.00 ± 0.05 | 16.00 ± 0.10 | 16.40 ^{+2.00} _{-0.00} | 22.40 (Max.) |
| | (inch) | 0.069 ± 0.004 | 0.295 ± 0.002 | 0.315 ± 0.004 | 0.157 ± 0.004 | 0.079 ± 0.002 | 0.630 ± 0.004 | 0.646 ^{+0.079} _{-0.000} | 0.882 (Max.) |

Notes: 1. A, B, and C the clearance between the component and the cavity must be within 0.5 mm max. for 8 mm tape and 12 mm tape, 1.0 mm max. for 16mm tape and 24 mm tape.

Company reserves the right to improve product design , functions and reliability without notice.

REV: D