TECHNICAL DATA DATASHEET 4303, Rev-

ZENER 5W VOLTAGE REGULATOR

PART NUMBER: 1C4981

CONFIGURATION: Zener 5W Voltage Regulator

- All ratings are @ Tc = 25 °C unless otherwise specified.

- Operating temperature: -55°C to +175°C

- Storage temperature: -65°C to +175°C

| MAXIMUM RATINGS / ELECTRICAL CHARACTERISTICS | SYMBOL | VALUE | UNITS |
|---|--------------------------|-------|----------|
| MIN ZENER VOLTAGE | Min V _z | 86.5 | Vdc |
| MAX ZENER VOLTAGE | Max V _z | 95.5 | Vdc |
| TEST CURRENT | Ι _Ζ | 15 | mAmps dc |
| MAXIMUM IMPEDANCE @ Iz | Max Z _z | 90 | ohm |
| REVERSE VOLTAGE | V _R | 69.2 | Vdc |
| MAXIMUM REVERSE CURRENT | Max I _{R1} | 2.0 | uAmps dc |
| MAXIMUM KNEE IMPEDANCE @ I _{ZK} = 1 mA | Max Z _K | 760 | ohm |
| MAXIMUM VOLTAGE REGULATION | Max V _Z (reg) | 7.5 | Vdc |
| MAXIMUM TEMPERATURE COEFFICIENT * | αVz | 0.100 | %/°C |
| POWER DISSIPATION * | Power | 5 | Watts |

* Adequate energy absorption should be provided.

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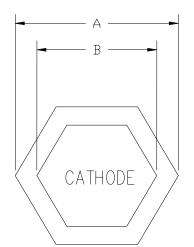
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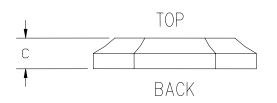


MECHANICAL DIMENSIONS: In Inches (mm)

Bottom side metalization: AI - 25 kÅ minimum or Ti/Ni/Ag - 30 kÅ minimum.

Top side metalization: AI - 25 kÅ minimum or Ti/Ni/Ag - 30 kÅ minimum.

Bottom side is anode, top side is cathode.



| MIL-PRF | CHIP | DIMENSIONS – INCHES (MILIMETERS) | | | | | | |
|------------------------|--------|----------------------------------|-----------------|-----------------|-----------------|------------------|------------------|--|
| | | А | | В | | С | | |
| | | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | |
| MIL-PRF- 19500/356F | 1C4981 | 0.087 (2.21) | 0.091 (2.31) | 0.069 (1.75) | 0.075 (1.91) | 0.0095 (0.24) | 0.0105 (0.27) | |