

SEMICONDUCTOR

TECHNICAL DATA
DATASHEET 4214, REV-

ZENER 0.5W VOLTAGE REGULATOR

PART NUMBER: 1C6330

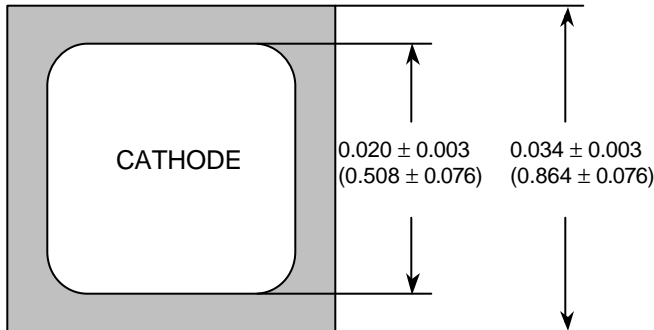
CONFIGURATION: Zener 0.5W Voltage Regulator

- All ratings are @ Tc = 25 °C unless otherwise specified.
- Operating temp.: -55 °C to +175 °C
- Storage temp.: -65 °C to +175 °C

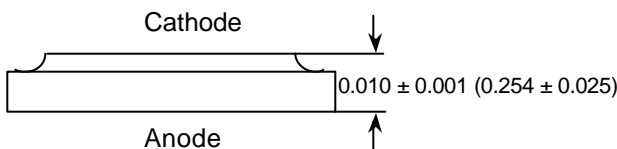
| MAXIMUM RATINGS / ELECTRICAL CHARACTERISTICS | SYMBOL | VALUE | UNITS |
|---|--------------------------|-------|----------|
| NOMINAL ZENER VOLTAGE ± 5% @ I _{Z2} | V _{Z2} NOM | 18.0 | Vdc |
| MIN ZENER VOLTAGE @ 250 µA | V _{Z1} MIN | 16.6 | Vdc |
| TEST CURRENT | I _{Z2} | 7 | mAmps dc |
| MAXIMUM IMPEDANCE @ I _{Z2} | Max Z _Z | 14 | ohm |
| REVERSE VOLTAGE | V _R | 14.0 | Vdc |
| MAXIMUM REVERSE CURRENT | Max I _{R1} | 0.05 | uAmps dc |
| MAXIMUM REVERSE CURRENT @ T _A = +150°C | Max I _{R2} | 10 | uAmps dc |
| MAXIMUM KNEE IMPEDANCE @ 250 µA | Max Z _K | 600 | ohm |
| MAXIMUM VOLTAGE REGULATION | Max V _Z (reg) | 0.85 | Vdc |
| MAXIMUM TEMPERATURE COEFFICIENT * | αV _Z | 0.085 | %/°C |
| POWER DISSIPATION * | Power | 0.5 | Watts |

* Adequate energy absorption should be provided.

MECHANICAL DIMENSIONS: In Inches (mm)



Bottom side metalization: Al - 25 kÅ minimum or Ti/Ni/Ag - 30 kÅ minimum.
 Top side metalization: Al - 25 kÅ minimum or Ti/Ni/Ag - 30 kÅ minimum.
 Bottom side is anode, top side is cathode.



TECHNICAL DATA

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