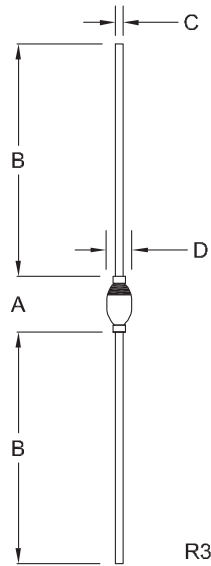


Package Details

GPR-1A Case



Mechanical Drawing



| SYMBOL | DIMENSIONS | | | |
|--------|------------|-------|-------------|------|
| | INCHES | | MILLIMETERS | |
| A | - | 0.240 | - | 6.10 |
| B | 1.000 | - | 25.40 | - |
| C | 0.028 | 0.034 | 0.71 | 0.86 |
| D | 0.070 | 0.150 | 1.80 | 3.81 |

GPR-1A (REV: R3)

Lead Code: Cathode Band

Packing Options

Bulk:

White corrugated box with static shielded bags

Bulk Packing Quantity: 1,000

Tape and Reel:

Axial taped and reeled in accordance with EIA-296-E

Tape and Reel Packing Quantity: 4,500

R1 (25-February 2013)

Material Composition Specification

GPR-1A Case



Device average mass 342 mg

Fluctuation margin +/-10%

| Component | Material | Material | | Substance | CAS No. | Substance | | | |
|---------------|------------------|-----------|-------|-----------|-----------|-----------|--------|---------|--------|
| | | (%wt) | (mg) | | | (%wt) | (mg) | (ppm) | |
| active device | doped Si | 0.34% | 1.16 | Si | 7440-21-3 | 0.34% | 1.16 | 3,392 | |
| axial lead | wire | 80.7% | 276 | Cu | 7440-50-8 | 80.65% | 275.83 | 806,520 | |
| | | | | Zn | 7440-66-6 | 0.05% | 0.17 | 497 | |
| | moly slug | 13.39% | 45.8 | Mo | 7439-98-7 | 13.39% | 45.8 | 133,918 | |
| die attach | solder | 0.5% | 1.71 | Cu | 7440-50-8 | 0.4% | 1.36 | 3,977 | |
| | | | | | Ag | 7440-22-4 | 0.08% | 0.26 | 760 |
| | | | | | P | 7723-14-0 | 0.03% | 0.09 | 263 |
| encapsulation | glass | 2.92% | 10 | Zn | 7440-66-6 | 1.4% | 4.8 | 14,049 | |
| | | | | | O | 7782-44-7 | 1.07% | 3.67 | 10,741 |
| | | | | | B | 7440-42-8 | 0.28% | 0.95 | 2,780 |
| | | | | | Si | 7440-21-3 | 0.11% | 0.38 | 1,112 |
| | | | | | Pb | 7439-92-1 | 0.06% | 0.2 | 585 |
| plating* | tin/lead process | 2.05% | 7.0 | Sn | 7440-31-5 | 1.74% | 5.96 | 17,427 | |
| | | | | | Pb | 7439-92-1 | 0.3% | 1.04 | 3,041 |
| | | matte tin | 2.05% | 7.0 | Sn | 7440-31-5 | 2.05% | 7.0 | 20,468 |

*For Lead Free plating, add suffix "PB FREE" to part number.

For Tin/Lead plating, add suffix "TIN/LEAD" to part number.

No suffix designation allows for the supply of either lead-free or tin/lead plated product depending on availability.

Disclaimer

The information provided in this Material Composition data sheet is, to the best of our knowledge, correct. However, there is no guarantee to completeness or accuracy, as some information is derived from data sources outside the company.

R4 (16-July 2018)