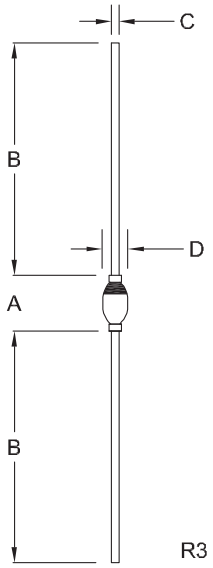
# Package Details
## GPR-1A Case

### Mechanical Drawing




| DIMENSIONS | | | | |
|---|---|---|---|---|
| | INCHES | | MILLIMETERS | |
| SYMBOL | MIN | MAX | MIN | MAX |
| 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

# 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 “LEAD 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.