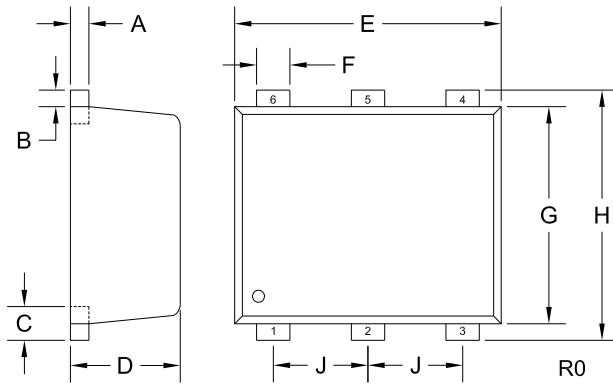


Package Details
SOT-963 Case



Mechanical Drawing



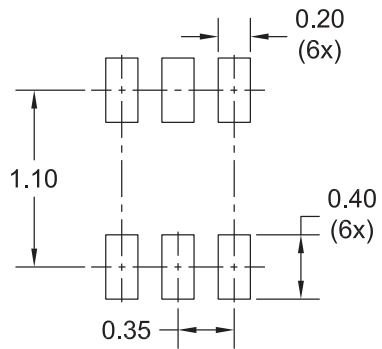
| SYMBOL | DIMENSIONS | | | |
|--------|------------|-------|-------------|-------|
| | INCHES | | MILLIMETERS | |
| | MIN | MAX | MIN | MAX |
| A | 0.002 | 0.006 | 0.050 | 0.150 |
| B | 0.002 | 0.006 | 0.050 | 0.150 |
| C | 0.005 | 0.007 | 0.125 | 0.175 |
| D | 0.016 | 0.020 | 0.400 | 0.500 |
| E | 0.037 | 0.041 | 0.950 | 1.050 |
| F | 0.004 | 0.008 | 0.100 | 0.200 |
| G | 0.030 | 0.033 | 0.750 | 0.850 |
| H | 0.037 | 0.041 | 0.950 | 1.050 |
| J | 0.014 | | 0.350 | |

SOT-963 (REV: R0)

Lead Code:
Reference individual
device datasheet.

Part Marking: 2-3 Character Alpha/Numeric Code

Mounting Pad Geometry (Dimensions in mm)



R0

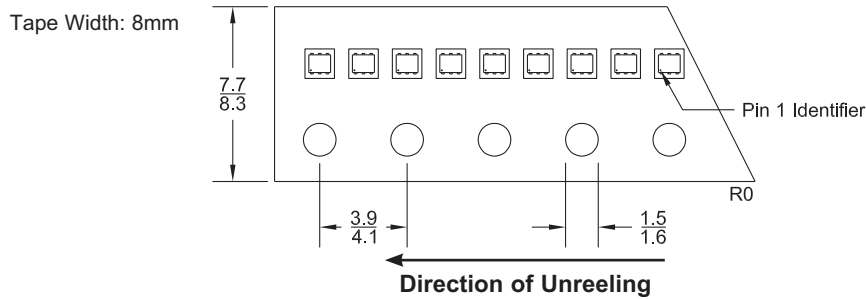
R1 (4-March 2010)

Package Details

SOT-963 Case



Tape Dimensions and Orientation (Dimensions in mm)



Packaging Base

7" Reel = 8,000 pcs.

Reel Labeling Information

Each reel is labeled with the following information:

Central Part Number, Customer Part Number, Purchase Order Number, Quantity, Lot Number, Date Code, Ship Date and Marking Code.

Reel Packing Information

| Reel Size | Reels per Box (Maximum) | Parts per Box (Maximum) | Box Dimensions | | Shipping Weight (Max.) | |
|-----------|-------------------------|-------------------------|----------------|----------|------------------------|----|
| | | | INCH | CM | LB | KG |
| 7" | 9 | 72,000 | 9x9x5 | 23x23x13 | 3 | 2 |
| | 18 | 144,000 | 9x9x9 | 23x23x23 | 6 | 3 |
| | 40 | 320,000 | 21x9x9 | 53x23x23 | 13 | 6 |
| | 108 | 864,000 | 27x9x17 | 69x23x43 | 34 | 16 |

Ordering Information

- For devices taped and reeled on 7" reels, add TR suffix to part number.
- All SMDs are available in small quantities for prototype and manual placement applications.

R1 (4-March 2010)

Material Composition Specification

SOT-963 Case



Device average mass **1.195 mg**
 Fluctuation margin **+/-10%**

| Component | Material | Material | | Substance | CAS No. | Substance | | |
|---------------|--------------|----------|--------|------------------|-------------|-----------|--------|---------|
| | | (%wt) | (mg) | | | (%wt) | (mg) | (ppm) |
| active device | doped Si | 2.51% | 0.03 | Si | 7440-21-3 | 2.51% | 0.03 | 25,109 |
| bond wire | gold | 1.26% | 0.015 | Au | 7440-57-5 | 1.26% | 0.015 | 12,554 |
| leadframe | Cu alloy | 42.87% | 0.5122 | Cu | 7440-50-8 | 41.93% | 0.501 | 419,317 |
| | | | | Fe | 7439-89-6 | 0.92% | 0.011 | 9,207 |
| | | | | P | 7723-14-0 | 0.01% | 0.0001 | 84 |
| | | | | Zn | 7440-66-6 | 0.01% | 0.0001 | 84 |
| die attach | silver epoxy | 1.17% | 0.014 | Ag | 7440-22-4 | 1.0% | 0.012 | 10,044 |
| | | | | resin filler | Proprietary | 0.17% | 0.002 | 1,674 |
| encapsulation | EMC | 50.8% | 0.607 | amorphous silica | 7631-86-9 | 49.21% | 0.588 | 492,133 |
| | | | | epoxy resin | Proprietary | 1.51% | 0.018 | 15,065 |
| | | | | carbon | 1333-86-4 | 0.08% | 0.001 | 837 |
| plating | Ni/Pd/Au | 1.39% | 0.0166 | Ni | 7440-02-0 | 1.34% | 0.016 | 13,391 |
| | | | | Pd | 7440-05-3 | 0.01% | 0.0001 | 84 |
| | | | | Au | 7440-57-5 | 0.04% | 0.0005 | 418 |

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.

R2 (3-June 2011)