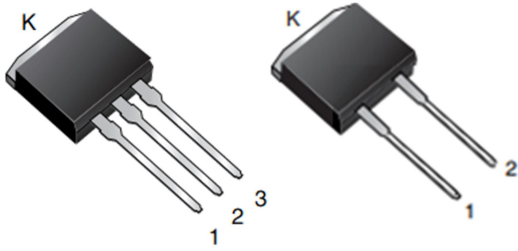


1: Certification

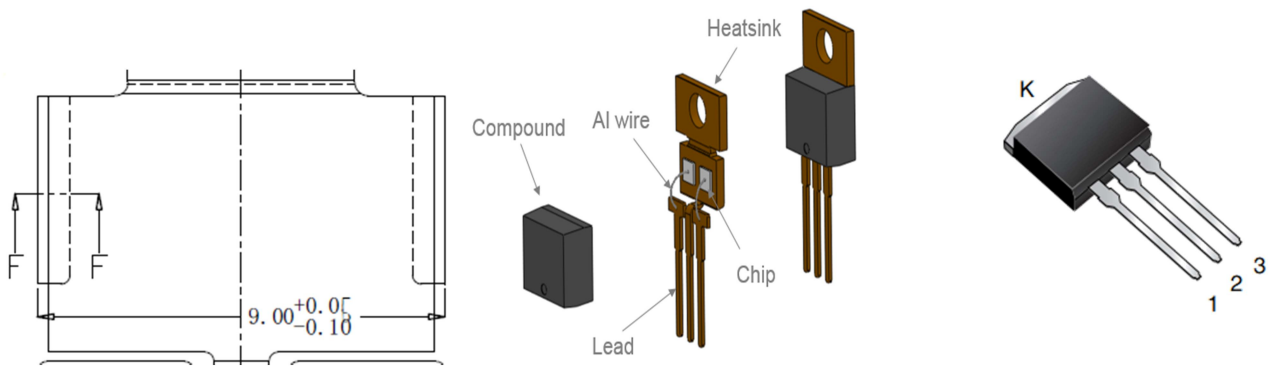
- System:
 - IATF 16949
 - ISO9001
 - ISO14001
 - ISO45001
- ROHS/REACH/ELV:
 - Lead frame、Wire, Molding compound、Post plating.
- UL 94: V-0
- Whisker Test: JESD 201 class 1A
- AEC-Q101 (Rev E): Qualified Available
- Solder bath temperature : 275 ° C maximum, 10 s



TO-262AB

TO-262AC

2: Internal Structure Diagram



Meet Die Size

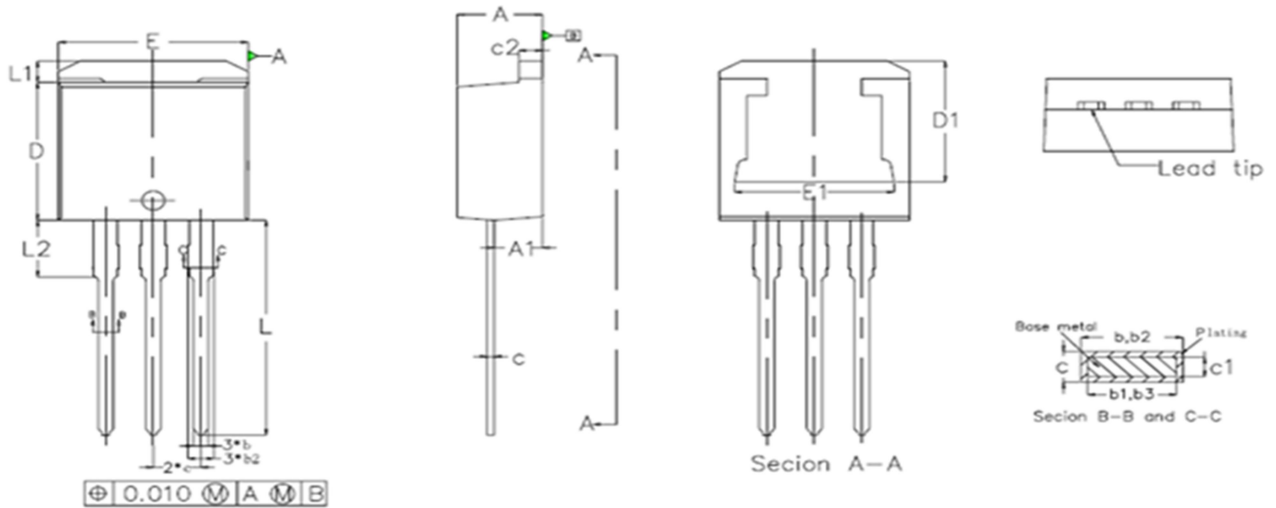
| Die Pad(mm) | Die size(mm) | |
|----------------|------------------|-----------------|
| X=8.50, Y=5.65 | Double die (Max) | Single die(Max) |
| | X=3.50, Y=5.30 | X=7.50, Y=5.30 |

4: Reliability Experiment

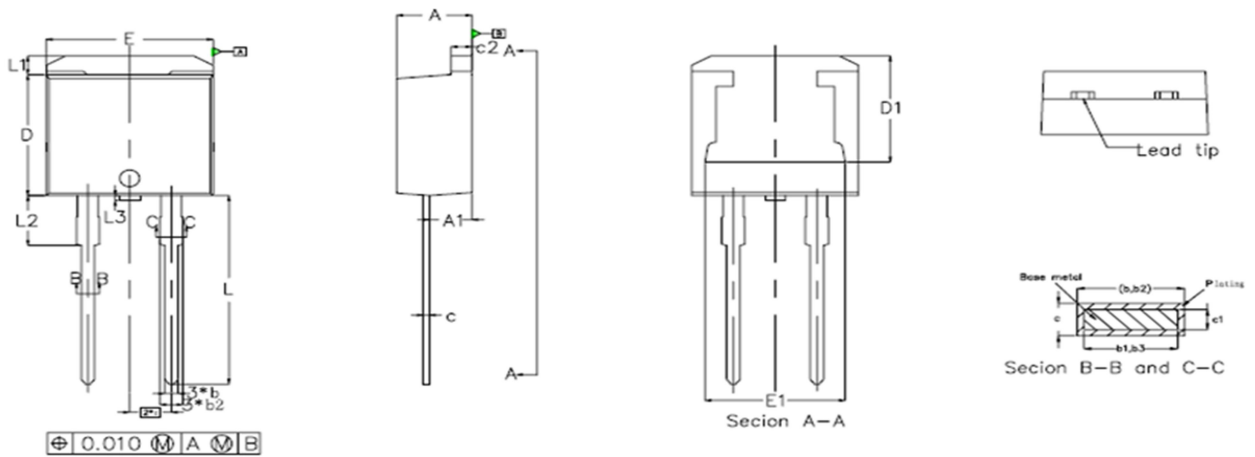
| | Test | Test Condition |
|---|--|--|
| 1 | Temperature Cycle (TMCL) | 500 cycles at -55°C to 150°C |
| 2 | Unbiased Highly Accelerated Stress Test (UHST) | 96 hours at Ta = 130°C, RH = 85% ;P=2.27atm. |
| 3 | High Temperature, Humidity & Reverse Bias (THBS) | 1000 hours at Tj = 85°C, RH = 85%, Reverse Bias = 80% rated voltage |
| 4 | Thermal Fatigue (TFAT) | 10000 cycles, Tj = 25°C to 125°C, DTj ≥ 80°C, Id=depends on device & Ton = Toff ~2.5 to 3.5 mins. |
| 5 | Static High Temperature Life (SHTL) | 1000 hours – Tj = max operating temp, Reverse Bias = 80% / 100% rated voltage.(according to customer request). |
| 6 | High Temperature Storage (HTSL) | 1000 hours at Ta = 150°C or Ta=175°C |

5: Package Outline Dimensions in millimeters

5.1 POD



| SYMBOL | MILLIMETERS | | | NOTES | SYMBOL | MILLIMETERS | | | NOTES |
|--------|-------------|------|------|-------|--------|-------------|---------|-------|-------|
| | Normal | MIN. | MAX. | | | Normal | MIN. | MAX. | |
| A | 4.55 | 4.44 | 4.70 | | D1 | 7.75 | 7.50 | 8.00 | |
| A1 | 2.60 | 2.54 | 2.79 | | E | 10.18 | 10.00 | 10.40 | |
| b | 0.85 | 0.7 | 0.9 | | E1 | 8.57 | 8.25 | 8.80 | |
| b1 | 0.83 | 0.51 | 0.89 | | e | 2.54 | 2.54BSC | | |
| b2 | 1.33 | 1.20 | 1.45 | | L | 13.55 | 13.46 | 14.00 | |
| b3 | 1.33 | 1.20 | 1.45 | | L1 | 1.35 | 1.00 | 1.65 | |
| c | 0.50 | 0.38 | 0.56 | | L2 | 3.60 | 3.56 | 3.71 | |
| c1 | 0.48 | 0.38 | 0.56 | | | | | | |
| c2 | 1.27 | 1.14 | 1.40 | | | | | | |
| D | 8.75 | 8.51 | 8.89 | | | | | | |



| SYMBOL | MILLIMETERS | | | NOTES | SYMBOL | MILLIMETERS | | | NOTES |
|--------|-------------|------|------|-------|--------|-------------|---------|-------|-------|
| | Normal | MIN. | MAX. | | | Normal | MIN. | MAX. | |
| A | 4.55 | 4.44 | 4.70 | | D1 | 7.75 | 7.50 | 8.00 | |
| A1 | 2.60 | 2.54 | 2.79 | | E | 10.18 | 10.00 | 10.40 | |
| b | 0.85 | 0.7 | 0.9 | | E1 | 8.57 | 8.25 | 8.80 | |
| b1 | 0.83 | 0.51 | 0.89 | | e | 2.54 | 2.54BSC | | |
| b2 | 1.33 | 1.20 | 1.45 | | L | 13.55 | 13.46 | 14.00 | |
| b3 | 1.33 | 1.20 | 1.45 | | L1 | 1.35 | 1.00 | 1.65 | |
| c | 0.50 | 0.38 | 0.56 | | L2 | 3.60 | 3.56 | 3.71 | |
| c1 | 0.48 | 0.38 | 0.56 | | L3 | - | 0 | 0.35 | |
| c2 | 1.27 | 1.14 | 1.40 | | | | | | |
| D | 8.75 | 8.51 | 8.89 | | | | | | |

5.2 Package (Tube) Dimensions in millimeters

