

Reliability Test Result

| 1. TEST RESULT | | | | | |
|------------------------------------|---|--|--|---------------|-----------|
| TEST ITEM | TEST CONDITION | | STANDARD | n[pcs] | Pn[pcs] |
| TEST ITEM | 1231 00 | TEST CONDITION | | (Sample QTY.) | (NG QTY.) |
| | 260±5°C , 30sec. , Reflow method 3times | | JESD22-A111 | 22 | 0 |
| Soldering heat resistance | 260±5°C,10sec.,Solder−bath | | | 22 | 0 |
| | 350±10°C , 3sec. , Hand soldering | | | 22 | 0 |
| Saldavahility | 245±5°C ,3sec. , Reflow method | | J-STD-002 | 22 | 0 |
| Solderability | 245±5℃ , 3sec. , Solder-bath | | JESD22-B102 | 22 | 0 |
| Temperature cycle | -55±5°C←→150±5°C 200cyc | -55±5°C←→150±5°C 200cycles | | 22 | 0 |
| High temp. high humidity reverse b | 85±2°C, 85±5%RH, specified bias ,1000hours | | JESD22-A101 | 22 | 0 |
| Pressure cooker test | 121±2℃ , 100%RH , 203kPa , 100hours | | JESD22-A102 | 22 | 0 |
| High temperature reverse bias | ture reverse bias Tj max., specified bias , 1000hours | | JESD22-A108 | 22 | 0 |
| High temperature gate bias | Tj max, VGSS(max), , 1000hours | | JESD22-A108 | 22 | 0 |
| Intermittent Operation Life | Ta=25±5°C、 ∠Tj≥100°C、 ON 120s/OFF 120s per cycle Duration: 15000cycles | | MIL-STD-750 Method 1037 | 99 | 0 |
| or Power and Temperature Cycle | Ta=-40(+0/-10)°C~+85(+10/ ON 300s/OFF 300s per cycle Duration: 6000cycles | -0)°C、 | JESD22 A-105 | 22 | |
| Lead strength (lead pull) | Sample body fixed, pulling lead as | Sample body fixed, pulling lead axis direction , $0.5 N$, $10 \pm 1 sec.$ | | 22 | 0 |
| | | | | | |
| 2. MEASUREMENT ITEM & CRI | TERIA | | | | |
| ITEM | CONDITION | | CRITERIA | | |
| Cutoff current : ICBO | Per specification | | | | |
| Cutoff current : IEBO | Per specification | According to the electrical characteristics specified by the specification | | | |
| DC current gain : hFE | Per specification | | | | |
| Physical | Visual check | No outstanding change in physical. | | | |
| Solderability | Visual check | Reflow Soldering | Immersed surfase, other than the end of pin as cut-surface, must be covered by solder. | | |
| | | Solder-bath | More than 95% of the electrode must be covered with solder. | | |

3. JUDGEMENT

No failure is observed from each test item.

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