

# Reliability Report

Part Number: Rectifier THT Series

Test Results : **PASS**

| Test Item  | Conditions  | Duration   | Quantity  | Rejects      |
|--|---|------------|-----------|--------------|
| <b>TEST</b><br>Pre- and Post-Stress<br>Electrical Test         | $T_a = 25\text{ }^\circ\text{C}$  | N/A        | all parts | see<br>below |
| <b>HTRB</b><br>High Temperature<br>Reverse Bias                | MIL-STD-750<br>Method 1038<br>$T_j = T_{jmax}$ , 80% VR   | 1000 hours | 77Pcs     | 0            |
| <b>TC</b><br>Temperature Cycling                               | JESD22-A104<br>-55 °C (+0,-10)/15Min~<br>150(+15,-0)/15Min,<br>1000Cycles   | 500hours   | 77Pcs     | 0            |
| <b>AC</b><br>Autoclave   | JESD22-A102<br>$T_a = 121\text{ }^\circ\text{C} \pm 2\text{ }^\circ\text{C}$ , RH = 100 % ,<br>15psig                               | 96 hours   | 77Pcs     | 0            |
| <b>H3TRB</b><br>High Humidity High<br>Temperature Reverse Bias | JESD22-A101<br>$T_a = 85\text{ }^\circ\text{C} \pm 2\text{ }^\circ\text{C}$ , RH = 85%±5%,<br>80 % VR (VR MAX=100V)                 | 1000 hours | 77Pcs     | 0            |
| <b>IOL</b><br>Intermittent Operating Life                      | MIL-STD-750 Method 1037<br>ON 2Min/OFF 2min, devices powered to<br>insure $\Delta T_j = 100\text{ }^\circ\text{C}$ for 15000 cycles | 1000 hours | 77Pcs     | 0            |
| <b>RSH</b><br>Resistance to Solder Heat                        | JESD22-B106<br>$270\text{ }^\circ\text{C} \pm 5\text{ }^\circ\text{C}$ ,  | 7s (+2,-0) | 30Pcs     | 0            |
| <b>SD</b><br>Solderability                                     | J-STD-002<br>$235\text{ }^\circ\text{C} \pm 5\text{ }^\circ\text{C}$  | 3 s        | 10Pcs     | 0            |
| <b>HTSL</b><br>High Temperature<br>Storage Life                | JESD22-A103<br>TstgMax  | 1000 hours | 77Pcs     | 0            |