



Electronic Component & Module Engineering
Active Component Engineering

Reliability Test Report

Product: TRAIC of Thyristor

Manufacturer: Doeshare Semiconductor
Technology

Manufacturer P/N: DT8T35I-800H

Report No: AE190808001



| | APPROVED | CHECKED | PREPARED |
|------|------------|------------|-------------|
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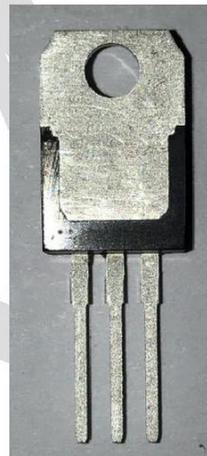
1. Sample Description

| | |
|-----------------|-----------------------------------|
| Manufacturer | Doeshare Semiconductor Technology |
| Manufacturer PN | DT8T35I-800H |
| Package | ITO-220 |
| Data code | D9A13 |
| Lot code | OE89T03 |
| Sample Size | 154pcs |

Sample Appearance



Top view of the sample



Bottom view of the sample

ITO-220 PACKAGE MARKING DESCRIPTION

| NOTE | Description | Meaning |
|------|-----------------------------------|-------------------|
| D | Manufacturer | Doeshare |
| T | Product | TRIAC |
| 8 | IT Amp, Unit A | 8A |
| T | If TRIAC -> T= 3Q, F=4Q. | TRIAC -> T= 3Q |
| 35 | If TRIAC=>IGT | IGT≤35mA |
| I | Package | Insulation TO-220 |
| 800 | Peak repetitive off-state voltage | 800V |
| H | operation temperature | H= 150°C |

3. Test Purpose

The reliability test is to evaluate the reliability of **DT8T35I-800H**

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4. Summary of Test Result

| Test Item | Test Condition | Test Tool | Sample Size(pcs) | Check Point | Fail Size(pcs) | Test Result |
|---------------|--------------------------------|--|------------------|-------------|----------------|-------------|
| H3TRB | 85°C, 85%RH V(T2toT1)=100V. | High Humidity High Temperature Reverse Bias | 77 | 168Hrs | 0/77 | Pass |
| | | | | 500Hrs | 0/77 | Pass |
| HTRB-F | Tj=150°C, V(T2toT1)=640V | High Temperature Reverse Bias Test | 38 | 168Hrs | 0/38 | Pass |
| | | | | 500Hrs | 0/38 | Pass |
| HTRB-R | Tj=150°C, V(T1toT2)= 640V | High Temperature Reverse Bias Test | 39 | 168Hrs | 0/39 | Pass |
| | | | | 500Hrs | 0/39 | Pass |