

|         |            |            |            |
|---------|------------|------------|------------|
| Product | Transistor | Grade      | Automotive |
| Package | UMT6       | JEDEC Code | SOT-363    |
| Type    | UMT1NFHA   |            |            |

## 1. CHARGED DEVICE MODEL (CDM)

Table1 CHARGED DEVICE MODEL ESD IMMUNITY FOR EACH TESTING STANDARDS

| STANDARD             | TEST TYPE               | TEST LEVEL | RESULT | CLASS |
|----------------------|-------------------------|------------|--------|-------|
| JEDEC<br>JESD22-C101 | FI-CDM                  | 1000V      | PASS   | C3    |
| JEITA<br>ED-4701/302 | FI-CDM<br>(Condition:A) | 1000V      | PASS   | IV    |
| AEC<br>AEC-Q101-005  | FI-CDM                  | 1000V      | PASS   | C5    |

## 2. HUMAN BODY MODEL (HBM)

Table2 HUMAN BODY MODEL ESD IMMUNITY FOR EACH TESTING STANDARDS

| STANDARD             | TEST TYPE                          | TEST CONDITION      | TEST LEVEL | RESULT |
|----------------------|------------------------------------|---------------------|------------|--------|
| JEDEC<br>JESD22-A114 | Human body model<br>(Contact mode) | C=100pF,<br>R=1.5kΩ | 2000V      | PASS   |
| JEITA<br>ED-4701/302 | Human body model<br>(Contact mode) | C=100pF,<br>R=1.5kΩ | 2000V      | PASS   |
| AEC<br>AEC-Q101-001  | Human body model<br>(Contact mode) | C=100pF,<br>R=1.5kΩ | 2000V      | PASS   |

## 3. NOTICE

This Product is electrostatic sensitive product, which may be damaged due to electrostatic discharge. Proper handling in the manufacturing process and storage conditions are required to prevent voltage exceeding the Product maximum rating to be applied to the Products. Caution especially required in dry environment (e.g. Grounding of human body / equipment / solder iron, isolation from charged objects, setting of Ionizer, friction prevention and temperature / humidity control).

## Notes

- 1) The information contained herein is subject to change without notice.
- 2) Before you use our Products, please contact our sales representative and verify the latest specifications :
- 3) Although ROHM is continuously working to improve product reliability and quality, semiconductors can break down and malfunction due to various factors.  
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- 8) For use of our Products in applications requiring a high degree of reliability (as exemplified below), please contact and consult with a ROHM representative : transportation equipment (i.e. cars, ships, trains), primary communication equipment, traffic lights, fire/crime prevention, safety equipment, medical systems, servers, solar cells, and power transmission systems.
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