# ELECTRICAL STATIC DISCHARGE IMMUNITY

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|---|---|---|---|
| Product | Transistor | Grade | Automotive |
| Package | SST3 | JEDEC Code | SOT-23 |
| Type | DTC143TCAHZG | | |

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 | 500V | PASS |
| JEITA<br>ED-4701/302 | Human body model<br>(Contact mode) | C=100pF,<br>R=1.5kΩ | 500V | PASS |
| AEC<br>AEC-Q101-001 | Human body model<br>(Contact mode) | C=100pF,<br>R=1.5kΩ | 500V | 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).


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## 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.
Therefore, in order to prevent personal injury or fire arising from failure, please take safety measures such as complying with the derating characteristics, implementing redundant and fire prevention designs, and utilizing backups and fail-safe procedures. ROHM shall have no responsibility for any damages arising out of the use of our Poducts beyond the rating specified by ROHM.

4) Examples of application circuits, circuit constants and any other information contained herein are provided only to illustrate the standard usage and operations of the Products. The peripheral conditions must be taken into account when designing circuits for mass production.

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6) The Products are intended for use in general electronic equipment (i.e. AV/OA devices, communication, consumer systems, gaming/entertainment sets) as well as the applications indicated in this document.

7) The Products specified in this document are not designed to be radiation tolerant.

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.

9) Do not use our Products in applications requiring extremely high reliability, such as aerospace equipment, nuclear power control systems, and submarine repeaters.

10) ROHM shall have no responsibility for any damages or injury arising from non-compliance with the recommended usage conditions and specifications contained herein.

11) ROHM has used reasonable care to ensur the accuracy of the information contained in this document. However, ROHM does not warrants that such information is error-free, and ROHM shall have no responsibility for any damages arising from any inaccuracy or misprint of such information.

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ROHM SEMICONDUCTOR

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