

|         |             |            |            |
|---------|-------------|------------|------------|
| Product | Zener diode | Grade      | Automotive |
| Package | PMDUM       | JEDEC Code | DO-219AB   |
| Type    | KDZVTFTR33B |            |            |

## 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 | 2kV        | PASS   |
| JEITA<br>ED-4701/302 | Human body model<br>(Contact mode) | C=100pF,<br>R=1.5kΩ | 2kV        | PASS   |
| AEC<br>AEC-Q101-001  | Human body model<br>(Contact mode) | C=100pF,<br>R=1.5kΩ | 2kV        | 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

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