Product Quality Information

nexperia

Quality Information for Product Type BZV49-C20

Quality and reliability data provided by Nexperia Semiconductors is intended to be a non-binding estimate of product performance only. It does not imply that any performance levels reflected in such data can be met if the product is operated outside the conditions expressly stated in the latest published data sheet for a device or in your application.

Quick reference

| Information | Content |
|------------------------------|-----------------------|
| Device Type | BZV49-C20 |
| Ordering Information (12NCs) | 9336 060 30115 |
| Qualification Grade | automotive |
| Package | SOT89 (TO-243, SC-62) |
| Waferfab | Nexperia DHAM |
| Assembly | Nexperia ATGD |
| ESD HBM | > 8000 V |
| Calculated Failure Rate | 0.46 FIT |
| MTBF/MTTF | 2.17E+09 hours |

Explanation

Automotive qualified products are in accordance with the AEC-Q101.

Electrostatic Discharge (ESD) tests are performed as described in the AEC-Q101 with each 3 positive and 3 negative pulses for each stress voltage level.

Test considered for FIT calculation: High Temperature Reverse Bias (HTRB, AEC-Q101 Test # 5). The parameters for calculation of FIT and MTBF/MTTF are as follows: Confidence level 60%, junction temperature derated to 55 °C, activation energy 0.7 eV, test time 168 - 1000 hrs.

For discrete semiconductor devices the Mean Time Between Failure (MTBF) is replaced by the Mean Time To Failure (MTTF) acronym. MTTF is calculated from the Intrinsic Failure Rate.

© 2019 Nexperia B.V.

All rights reserved. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice. No liability will be accepted by the publisher for any consequence of its use. Publication thereof does not convey nor imply any license under patent – or other industrial or intellectual property rights.