Quality Information for Product Type BZX384-C51

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Quick reference

Information	Content
Device Type	BZX384-C51
Ordering Information (12NCs)	9340 576 57115, 9340 576 57135
Qualification Grade	automotive
Package	SOD323 (SC-76)
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.

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