Product Reliability / FIT Data

12.11.2022

IRFS31N20DPBF

SP-Number:	SP001567562
ISP-Name:	IRFS31N20D
Package:	PG-TO263-3

Calculated average failure rate (AFR):

tested devices:	60654
device hours @ stress conditions:	58.861.465
Failed devices:	69
Confidence Level:	60%
Activation Energy:	0,7 eV
Ambient Temperature:	55°C
FIT value:	**2,28**
MTTF (h) value:	**438067153**

Please note:

FIT-rate calculations are based on JEDEC JESD85 („Methods for Calculating Failure Rates in Units of FITs“).

The sample size used to calculate the FIT-rate of a product, includes also other similar products from the same product family to gain higher statistical accuracy. Within a product family all members are equal in respect to the fabrication process and technology design.

Failure Rate given in the report represents an Average Failure Rate (AFR) which relates to the component reliability. The actual FIT-rate of the component depends on its application and may deviate from the listed FIT-rate.

AFR are shown as upper limits of the confidence interval. High failure rate may be caused by limited number of devices tested.

All executed reliability tests are performed according to the relevant industrial standards.

This FIT-rate report is not intended to be used with safety related applications and is not a base failure rate according to ISO 26262 or IEC 61508.

Provided reliability FIT-rate data are a non-binding estimation of intrinsic lifetime performance of our products.

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