

Product Qualification Report

BFS483

Low Noise Silicon Bipolar RF Transistor

Description

This product qualification report describes the characteristics of the product with respect to quality and reliability.

The qualification sample selection was done on production lots which were manufactured and tested on standard production processes and meet the defined requirements.

The qualification test results of those products as outlined in this document are based on **AECQ101** for target applications and may reference existing qualification results of similar products. Such referencing is justified by the structural similarity of the products.

Qualification Assessment

Qualified acc. AEC Q101 and assessed as PASS

For further information about comparable products, please contact the nearest Infineon Technologies office (www.infineon.com).



qualified before 2010 **BFS483**

Package: PG-SOT363-6 MSL: 1

Electrical Stress Test Results:

Test Description	Abbr.	Condition	Duration	Lots/ss	Fail/Qty	Result
Electrical Distribution	ED	-55°C, +25°C, +150°C		1 x 30	0 / 30	PASS
High Humidity High Temperature Reverse Bias JESD22 A101	H3TRB	T=85°C, RH=85%	1000 h	4 x 60	0 / 240	PASS
High Temperature Reverse Bias JESD22 A108	HTRB	Ta=150°C	1000 h	4 x 60	0 / 240	PASS
Intermittend Operating Life MIL-STD-750 Method 1037	IOL	Tj=175°C Cycle time: 2min	1000 h	4 x 60	0 / 240	PASS
ESD (HBM) AEC Q101-001	HBM	ESD class 1C		1 x 10	0 / 10	PASS

Environmental Stress Test Results:

Test Description	Abbr.	Condition	Duration	Lots/SS	Fail/Qty	Result
Preconditioning	PC	Soak acc.MSL1,		4 x 240	0 / 960	PASS
J-STD020 / JESD22 A113		3x reflow, 260°C				
Temperature Cycling	TC	-55°C to +150°C	1000 cyc	4 x 60	0 / 240	PASS
JESD22 A104						
Autoclave	AC	Ta=121°C,	96 h	4 x 60	0 / 240	PASS
JESD22 A102		RH=100%				

Mechanical Stress Test Results:

Test Description	Abbr.	Condition	Duration	Lots/SS	Fail/Qty	Result
Destructive Physical Analysis	DPA	Random samples from H3TRB & TC		4/2	0/8	PASS
Physical Dimensions JESD B-100	PD			1 / 30	0 / 30	PASS
Resistance to Solder Heat JESD B-106	RTSH	Solder bath Ts=260°C, dip 3 x 10 sec		1 / 30	0/30	PASS
Solderability J-STD-002	SD			1 / 10	0 / 10	PASS

Notes:

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Edition 2016-01-22 Published by Infineon Technologies AG 81726 München, Germany

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Do you have a question about this document?

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Document reference

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