

		APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL			Page 1 Appl. No. 368Brev1
Component Title: Power Schottky Barrier Diodes based on types 1N5819U, 1N5822U and STPS		Executive Member: CNES		Date: 11/06/2026	
Components (including series and families) submitted for Extension of Qualification Approval:					1
ESCC COMPONENT NO.	VARIANTS	RANGE OF COMPONENTS	BASED ON	TEST VEHICLE / S	COMPONENT SIMILAR
5106/021	02, 03	LCC2B	1N5819U	510602102	
5106/020	01, 02	LCC2B	1N5822U	510602001	
5106/016	05, 06, 07, 11	TO-254, SMD0.5, SMD1	STPS20100	510601611	
5106/017	01, 02	SMD0.5	STPS1045		
5106/018 5106/019	02 03, 05	SMD1 TO254, SMD1	STPS6045 STPS40100		
5106/023	01, 02, 03, 04, 05, 06	SMD.5, TO-254AA	STPS80A150	510602301 510602303	
5106/024	01, 02, 03, 04	SMD.5, TO-254AA	STPS40A45	510602401	
Component Manufacturer STMicroelectronics		Location of Manufacturing Plant(s) 3, rue de Suisse BP4199, 35041 Rennes Cedex		Date of original qualification approval: Date: 01/09/2020 Certificate Ref No. 368	
ESCC Specifications used for Maintenance of qualification testing: Generic: 5000 Issue: 10 Detail(s): 5106/016 Issue: 10 5106/017 7 5106/018 8 5106/019 9 5106/020 5 5106/021 5 5106/023 7 5106/024 5		Deviations to LVT testing and Detail Specification used: No ☒ Yes ☐ (supply details in Box 15) Deviation from current Specifications: No ☒ Yes ☐ (Supply details)		Qualification Extension Report reference and date: STPS40A150 ID 33945004YV Full F4 DC 2209 STPS80A150 ID 33945004YW F4 Sg2 DC 2214 STPS80A45 ID 3652003ZB Full F4 DC 2221 1N5822 ID 3383800802 F4 Sg1&3 DC 2242 STPS20100 ID 33020001ZE Full F4 DC 2312 1N5819 ID 33712001WV Full F4 DC 2311	
Summary of procurement or equivalent test results during current validity period in support of this application (those to ESCC listed first)					8
Project Name	Testing Level	LAT	Date code	Quantity Delivered	
PID changes since start of qualification None ☐ Minor* ☒ Major* ☐ *Provide details in box:		Current PID Verified by: CNES Name of Executive Representative Ref No: Generic: 8097046 (generic) Rev 39 and Diodes: 8122351 rev 20 Issue: Date: Rev Date: 21/10/2024			
Current Manufacturing facilities surveyed by: CNES on 12/07/2023 (Name of Executive Representative) (Date) Satisfactory: Yes ☒ No ☐ Explain Report Reference: CR-Visite Juillet 2023					11



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Failure Analysis, DPA, NCCS available: Yes ☒ No ☐ (Supply data)

Ref. No's and purposes: 2CSTM403: RGA issue on 1N5819 (closed)

The undersigned hereby certifies on behalf of the ESCC Executive - that the above information is correct; - that the appropriate documentation has been evaluated; - that full compliance to all ESCC requirements is evidence (except as stated in box 15); - that the reports and data are available at the ESCC Executive and therefore applies on behalf of _____ as the responsible Executive Member for ESCC qualification status to be extended to the component(s) listed herein.

Date: 11/06/2026

Signature

numérique de

L. FONTAINE

→ Fontaine Lya

Date :

2026.06.11

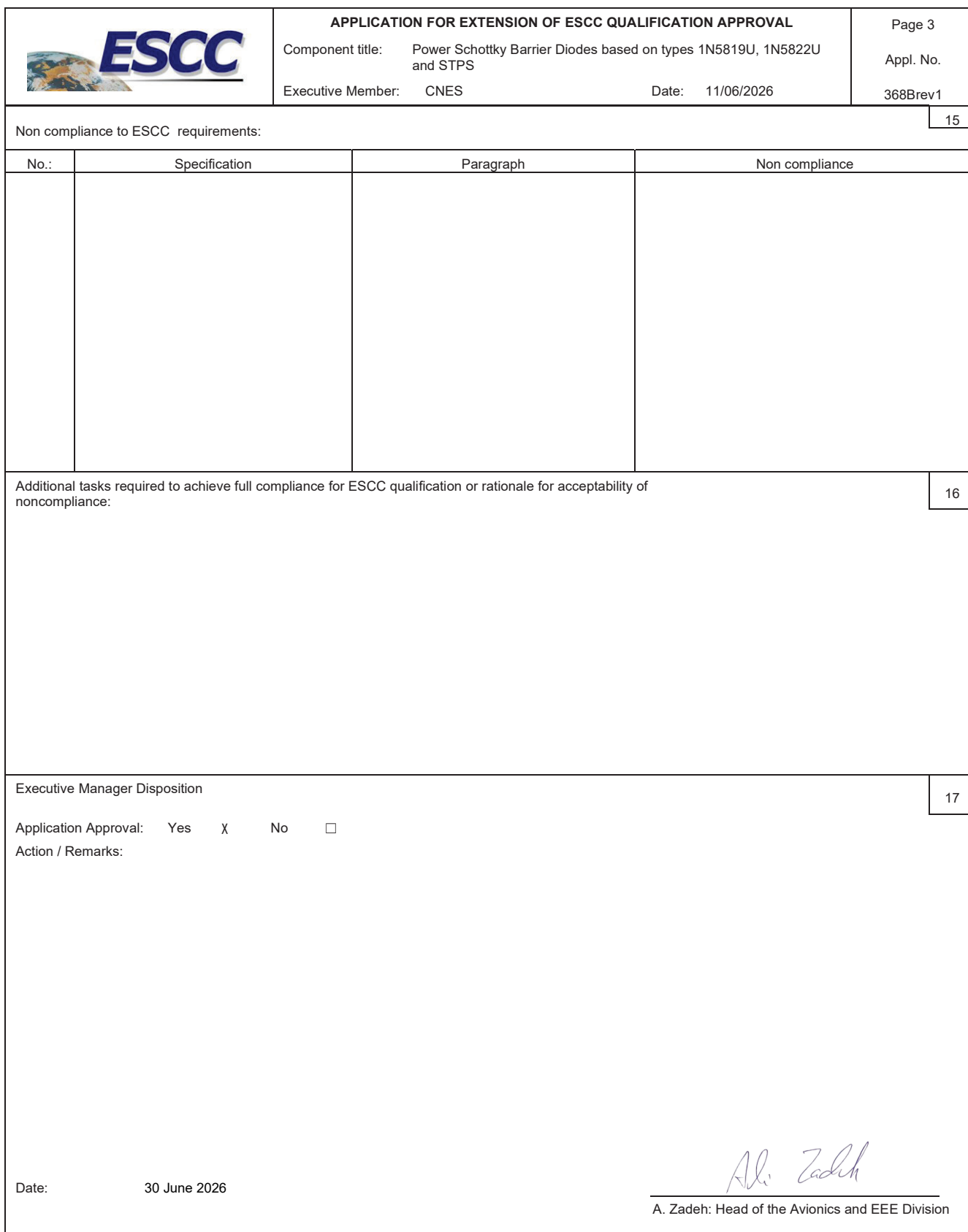
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Continuation of Boxes above:

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ANNEX 1: LIST OF TESTS DONE TO SUPPORT EXTENSION OF QUALIFICATION

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Tests conducted in compliance with:

- ESCC 5000 generic specification; Chart F4 (for ESCC/QPL parts);
- or PID-TFD (for ESCC/QML parts)

Tests vehicle identification/description:

STPS80A150CSGH 33945004YW SMD.5 F4 Sg2 (DC 2214)	1N5822U01B 3383800802 LCC2B F4 Sg1&3 (DC 2242)
STPS40A150CHYG 33945004YV TO254AA F4 (DC 2209)	1N5819U01BF 33712001WV LCC2B F4 (DC 2311)
STPS80A45CSGH 3652003ZB SMD.5 F4 (DC 2221)	STPS20100C2FYTE 33020001ZE TO254 F4 (DC 2312)

Detail Specification reference: See box 5

Chart F4	Test	Tick when done	Conditions	Date Code Diffusion Lot	Tested Qty	N° of Rejects	Comments if not performed. Comments on Rejection
Environmental/Mechanical Subgroup	Mechanical shock	☒	MIL-STD-750 TM2016	2209 2312	75	0	
	Vibration	☒	MIL-STD-750 TM2056	2209 2312	75	0	
	Constant acceleration	☒	MIL-STD-750 TM2006	2209 2312	75	0	
	Seal Fine leak Gross leak	☒	MIL-STD-750 TM1071	2209 2312	75	0	
	Electrical Measurement	☒	Intermediate and End-Point Electrical Measurements	2209 2312	75	0	
	External Visual	☒	ESCC Basic Spec 20500	2221 2312	75	0	
	Thermal shock	☐	MIL-STD-750 TM1056				Only applicable to axial lead glass diodes
	Temperature Cycling	☒	MIL-STD-750 TM1051	2209 2312	75	0	
	Moisture Resistance	☒	MIL-STD-750 TM1021	2209 2312	75	0	
	Seal Fine leak Gross leak	☒	MIL-STD-750 TM1071	2209 2312	75	0	
	Electrical Measurement	☒	Intermediate and End-Point Electrical Measurements	2209 2312	75	0	
	External Visual	☒	ESCC Basic Spec 20500	2209 2312	75	0	
Endurance Subgroup	Operating Life	☒	ESCC 5000 Para. 8.19	2209 2312	75	0	
	Electrical Measurement	☒	Intermediate and End-Point Electrical Measurements	2209 2312	75	0	
	Seal Fine leak Gross leak	☒	MIL-STD-750 TM1071	2209 2312	75	0	
	External Visual Inspection	☒	ESCC Basic Spec 20500	2209 2312	75	0	
Assembly Capability Subgroup	Permanence of Marking	☐	ESCC Basic Spec 24800				Not applicable for laser marking
	Terminal Strength	☒	ESCC 5000 Para. 8.18	2209 2312	25	0	
	Internal Visual	☒	ESCC Basic Spec 20400	2209 2312	25	0	
	Bond Strength	☒	MIL-STD-750 TM 2037	2209 2312	15	0	
	Die Shear	☒	MIL-STD-750 TM 2017	2209 2312	15	0	

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Chart F4	Test	Tick when done	Conditions	Date Code Diffusion Lot	Tested Qty	N° of Rejects	Comments if not performed. Comments on Rejection
Additional Tests		☐					
		☐					
		☐					

