DOCUMENT CHANGE REQUEST

DCR number 1294	Changes required for: Qualification	Originator: Fernando Martinez
Date: 2020/07/17	Date sent: 2019/09/06	Organisation: ESTEC
Status: IMPLEMENTED		

Title:	Generic Specification for Discrete Semiconductor Components		
Number:	5000	Issue:	8

Other documents affected:

Page:

11

Paragraph:

New paragraph 4.2.1

Original wording:

-

Proposed wording:

New paragraph inserts Single Phase Qualfiication (SPQ) as a possibility for discrete devices

Justification:

Policy decision in ESCC. Proposed text as in attached draft

DOCUMENT CHANGE REQUEST

DCR number 1294	Changes required for: Qualification	Originator: Fernando Martinez
Date: 2020/07/17	Date sent: 2019/09/06	Organisation: ESTEC
Status: IMPLEMENTED		

Title:	Generic Specification for Discrete Semiconductor Components		
Number:	5000	Issue:	8

Other documents affected:

Page:

9

Paragraph:

3 TERMS, DEFINITIONS, ABBREVIATIONS, SYMBOLS AND UNITS

Original wording:

as published

Proposed wording:

add:
Power Device: All MOSFETs, a bipolar transistor that may dissipate more than 2W, a diode that may dissipate more than 1W

Justification:

Explicit reference is made to Power devices in the definitions of Single Phase Qualification requirements in (new) Para. 4.2.1

DOCUMENT CHANGE REQUEST

DCR number 1294	Changes required for: Qualification	Originator: Fernando Martinez
Date: 2020/07/17	Date sent: 2019/09/06	Organisation: ESTEC
Status: IMPLEMENTED		

Title:	Generic Specification for Discrete Semiconductor Components		
Number:	5000	Issue:	8

Other documents affected:

Page:

NEW PARAGRAPH

Paragraph:

8.25 INTERNAL GAS ANALYSIS

Original wording:

-

Proposed wording:

NEW PARAGRAPH

Justification:

as discussed in PSWG ad-hoc WG

DOCUMENT CHANGE REQUEST

DCR number 1294	Changes required for: Qualification	Originator: Fernando Martinez
Date: 2020/07/17	Date sent: 2019/09/06	Organisation: ESTEC
Status: IMPLEMENTED		

Title:	Generic Specification for Discrete Semiconductor Components		
Number:	5000	Issue:	8

Other documents affected:

Page:

8

Paragraph:

2.1. ESCC SPECIFICATIONS

Original wording:

as published

Proposed wording:

add:
ESCC 2020 and ESCC 25100 as applicable
[...] Such replacements shall be clearly identified in the applicable PID

Justification:

missing references are necessary for implementation of Qualification
reference to replacement of specs and test methods is consistent with other ESCC Generic specs

DOCUMENT CHANGE REQUEST

DCR number 1294	Changes required for: Qualification	Originator: Fernando Martinez
Date: 2020/07/17	Date sent: 2019/09/06	Organisation: ESTEC
Status: IMPLEMENTED		

Title:	Generic Specification for Discrete Semiconductor Components		
Number:	5000	Issue:	8

Other documents affected:

Page:

Paragraph:

12 CHARTS

Original wording:

as published

Proposed wording:

ADD Internal Gas Analysis on three pieces, as a separate branch, under the Assembly Capability Subgroup in Chart F4A

Justification:

as discussed in PSWG ad-hoc WG

DOCUMENT CHANGE REQUEST

DCR number 1294	Changes required for: Qualification	Originator: Fernando Martinez
Date: 2020/07/17	Date sent: 2019/09/06	Organisation: ESTEC
Status: IMPLEMENTED		

Title:	Generic Specification for Discrete Semiconductor Components		
Number:	5000	Issue:	8

Other documents affected:

Page:

9

Paragraph:

2.2. OTHER (REFERENCE) DOCUMENTS

Original wording:

as published

Proposed wording:

add:
ECSS-ST-70-08 and ECSS-Q-ST-70-38

Justification:

missing references are necessary for implementation of Qualification
reference to ECSS assembly standards s is consistent with other ESCC Generic specs

DOCUMENT CHANGE REQUEST

DCR number 1294	Changes required for: Qualification	Originator: Fernando Martinez
Date: 2020/07/17	Date sent: 2019/09/06	Organisation: ESTEC
Status: IMPLEMENTED		

Title:	Generic Specification for Discrete Semiconductor Components		
Number:	5000	Issue:	8

Other documents affected:

Page:

Paragraph:

12 CHARTS

Original wording:

as published

Proposed wording:

ADD NEW CHART F0 (INFORMATIVE)

Justification:

as discussed in PSWG ad-hoc WG

DOCUMENT CHANGE REQUEST

DCR number 1294	Changes required for: Qualification	Originator: Fernando Martinez
Date: 2020/07/17	Date sent: 2019/09/06	Organisation: ESTEC
Status: IMPLEMENTED		

Title:	Generic Specification for Discrete Semiconductor Components		
Number:	5000	Issue:	8

Other documents affected:

Page:

26

Paragraph:

8.20 THERMAL SHOCK

Original wording:

as published

Proposed wording:

Modified paragraph with split of requirements that takes SPQ into consideration

Justification:

as discussed in PSWG ad-hoc WG

Attachments:

escc5000iss9drafta.docx

Modifications:

ESCC 5000 with SPQ to be released but without IOL (Intermittent Operating Life) and without IGA (Interna Gaz Analysis)

Approval signature:

Date signed:

2020-07-17