



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 Qualification (SPQ) as a possibility for discrete devices

Justification:

Policy decision in ESCC. Proposed text as in attached draft



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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



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NEW PARAGRAPH

Paragraph:

8.25 INTERNAL GAS ANALYSIS

Original wording:

-

Proposed wording:

NEW PARAGRAPH

Justification:

as discussed in PSWG ad-hoc WG



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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



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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



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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 is consistent with other ESCC Generic specs



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Paragraph:

12 CHARTS

Original wording:

as published

Proposed wording:

ADD NEW CHART F0 (INFORMATIVE)

Justification:

as discussed in PSWG ad-hoc WG



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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:

esc5000iss9drafta.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