DOCUMENT CHANGE REQUEST

DCR number 941	Changes required for: General	Originator: Steve Jeffery
Date: 2015/10/27	Date sent: 2015/07/20	Organisation: ESCC Executive
Status: IMPLEMENTED		

Title:	Transistors, Power, MOSFET, N-Channel, RAD-HARD, based on Type STRH100N10FSY3		
Number:	5205/021	Issue:	5

Other documents affected:

5205/022-4, 5205/023-4, 5205/024-4, 5205/025-4, 5205/029-2

Page:

Various, depending on the individual Detail Spec. See each proposed spec in attachment.

Paragraph:

1.6 HANDLING PRECAUTIONS for Detail Specs 5205/021, /022, /025 and /029. Note that a new Para. 1.6 HANDLING PRECAUTIONS shall be added to Detail Specs 5205/023 & 5205/024 and the remaining “1.X” Paras. shall be re-numbered accordingly.

Original wording:

For Detail Specs 5205/023 and 5205/024, original wording is not applicable and a new paragraph is proposed – see below.

For Detail Specs 5205/021, /022, /025 and /029 original wording is:
“The TO-254AA package contains Beryllium Oxide (BeO) and therefore it must not be ground, machined, sandblasted or subjected to any mechanical operation which will produce dust. The case must not be subjected to any chemical process (e.g. etching) which will produce fumes.”

Proposed wording:

For Detail Specs 5205/021, /022, /025 and /029 the following wording is proposed to be added before the existing (original) wording:
“These components are susceptible to damage by electrostatic discharge. Therefore, suitable precautions shall be employed for protection during all phases of manufacture, testing, shipment and any handling.

These components are categorised as Class X per ESCC Basic Specification No. 23800 with a Minimum Critical Path Failure Voltage of XXXX Volts.”

The “Xs” shall be replaced by the applicable Classes and Minimum Critical Path Failure Voltages for each Detail Spec, which are:
5205/021 = Class 2, Voltage 3400V
5205/022 = Class 2, Voltage 2550V
5205/025 = Class 3, Voltage 7600V
5205/029 = Class 2, Voltage 1500V

For Detail Specs 5205/023 and 5205/024 a new Paragraph 1.6 HANDLING PRECAUTIONS is proposed to be added using the wording shown above and with the following applicable Classes and Minimum Critical Path Failure Voltages for each Detail Spec:

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5205/023 = Class 1, Voltage 600V
5205/024 = Class 2, Voltage 1700V

The remaining “1.X” Paragraphs shall be re-numbered accordingly (e.g. PHYSICAL DIMENSIONS AND TERMINAL IDENTIFICATION shall be Para. 1.7).

Proposed Draft Detail Specs which incorporate the changes described above are attached.

Justification:

This DCR has been raised to add the relevant ESDS handling precaution information to each Detail Spec, as applicable and per ESCC requirements. See ESCC Basic Specification No. 23800.

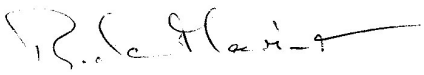
Attachments:

5205025_issue_4a.docx, 5205023_issue_4a.docx, 5205029_issue_3a.docx, 5205024_issue_4a.docx, 5205022_issue_4a.docx, 5205021_issue_5a.docx

Modifications:

N/A

Approval signature:



Date signed:

2015-10-27