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Semiconductor devices - Mechanical and climatic test methods - Part 13: Salt atmosphere

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 01/19

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English Version

**Semiconductor devices - Mechanical and climatic test methods -
Part 13: Salt atmosphere
(IEC 60749-13:2018)**

Dispositifs à semiconducteurs - Méthodes d'essais
mécaniques et climatiques - Partie 13: Atmosphère saline
(IEC 60749-13:2018)

Halbleiterbauelemente - Mechanische und klimatische
Prüfverfahren - Teil 13: Salzatmosphäre
(IEC 60749-13:2018)

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Comité Européen de Normalisation Electrotechnique
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CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN IEC 60749-13:2018 (E)**European foreword**

The text of document 47/2446/FDIS, future edition 2 of IEC 60749-13, prepared by IEC/TC 47 "Semiconductor devices" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60749-13:2018.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2018-12-22
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(normative)**Normative references to international publications
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NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

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<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60749-14	-	Semiconductor devices - Mechanical and climatic test methods -- Part 14: Robustness of terminations (lead integrity)	EN 60749-14	-



IEC 60749-13

Edition 2.0 2018-02

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Semiconductor devices – Mechanical and climatic test methods –
Part 13: Salt atmosphere**

**Dispositifs à semiconducteurs – Méthodes d’essais mécaniques et climatiques –
Partie 13: Atmosphère saline**



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INTERNATIONAL STANDARD

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**Semiconductor devices – Mechanical and climatic test methods –
Part 13: Salt atmosphere**

**Dispositifs à semiconducteurs – Méthodes d’essais mécaniques et climatiques –
Partie 13: Atmosphère saline**

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CONTENTS

FOREWORD.....	3
1 Scope.....	5
2 Normative references	5
3 Terms and definitions	5
4 Test apparatus	5
5 Procedure.....	6
5.1 Conditioning and maintenance of test chamber	6
5.2 Initial preconditioning of leads.....	6
5.3 Mounting of test specimens.....	6
5.4 Chamber operation	10
5.5 Length of test.....	10
5.6 Examination	11
5.7 Failure criteria.....	11
5.7.1 Finished product	11
5.7.2 Package elements	12
6 Summary	12
Bibliography.....	14
Figure 1 – Dual-in-line packages with leads attached to, or exiting from package sides (such as side-brazed packages and ceramic dual-in-line packages).....	7
Figure 2 – Packages with leads attached to, or exiting from the opposite side of the lid	9
Figure 3 – Packages with leads attached to, or exiting from package sides, parallel to lids (such as flatpacks)	9
Figure 4 – Leadless and leaded chip carriers	10
Figure 5 – Corrosion area charts.....	13
Table 1 – Minimum duration of exposure.....	11

INTERNATIONAL ELECTROTECHNICAL COMMISSION

**SEMICONDUCTOR DEVICES –
MECHANICAL AND CLIMATIC TEST METHODS –****Part 13: Salt atmosphere**

FOREWORD

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International Standard IEC 60749-13 has been prepared by IEC technical committee 47: Semiconductor devices.

This second edition cancels and replaces the first edition published in 2002. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) alignment with MIL-STD-883J Method 1009.8, Salt Atmosphere (Corrosion), including information on conditioning and maintenance of the test chamber and mounting of test specimens (including explanatory figures).

The text of this International Standard is based on the following documents:

FDIS	Report on voting
47/2446/FDIS	47/2455/RVD

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts in the IEC 60749 series, published under the general title *Semiconductor devices – Mechanical and climatic test methods*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

SEMICONDUCTOR DEVICES – MECHANICAL AND CLIMATIC TEST METHODS –

Part 13: Salt atmosphere

1 Scope

This part of IEC 60749 describes a salt atmosphere test that determines the resistance of semiconductor devices to corrosion. It is an accelerated test that simulates the effects of severe sea-coast atmosphere on all exposed surfaces. It is only applicable to those devices specified for a marine environment.

The salt atmosphere test is considered destructive.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60749-14, *Semiconductor devices – Mechanical and climatic test methods – Part 14: Robustness of terminations (lead integrity)*

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