

SLOVENSKI STANDARD SIST EN 60749-34:2011

01-februar-2011

Nadomešča:

SIST EN 60749-34:2004

Polprevodniški elementi - Metode za mehansko in klimatsko preskušanje - 34. del: Močnostno cikliranje (IEC 60749-34:2010)

Semiconductor devices - Mechanical and climatic test methods - Part 34: Power cycling (IEC 60749-34:2010)

Halbleiterbauelemente - Mechanische und klimatische Prüfverfahren - Teil 34: Lastwechselprüfung (IEC 60749-34:2010)

Dispositifs à semiconducteurs - Méthodes d'essais mécaniques et climatiques - Partie 34: Cycles en puissances (©Eld60749-34:2010) ds/sist/a9830ec9-c027-42b3-998f-684b00d358d7/sist-en-60749-34-2011

Ta slovenski standard je istoveten z: EN 60749-34:2010

ICS:

31.080.01 Polprevodniški elementi Semiconductor devices in

(naprave) na splošno general

SIST EN 60749-34:2011 en

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EUROPEAN STANDARD

EN 60749-34

NORME EUROPÉENNE EUROPÄISCHE NORM

December 2010

ICS 31.080.01

Supersedes EN 60749-34:2004

English version

Semiconductor devices Mechanical and climatic test methods Part 34: Power cycling

(IEC 60749-34:2010)

Dispositifs à semiconducteurs -Méthodes d'essais mécaniques et climatiques -Partie 34: Cycles en puissance (CEI 60749-34:2010) Halbleiterbauelemente -Mechanische und klimatische Prüfverfahren -Teil 34: Lastwechselprüfung (IEC 60749-34:2010)

iTeh STANDARD PREVIEW

This European Standard was approved by CENELEC on 2010-12-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any lateration. 34:2011

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

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CENELEC

European Committee for Electrotechnical Standardization Comité Européen de Normalisation Electrotechnique Europäisches Komitee für Elektrotechnische Normung

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Foreword

The text of document 47/2068/FDIS, future edition 2 of IEC 60749-34, prepared by IEC TC 47, Semiconductor devices, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60749-34 on 2010-12-01.

This European Standard supersedes EN 60749-34:2004.

The significant changes with respect from EN 60749-34:2004 include:

- the specification of tighter conditions for more accelerated power cycling in the wire bond fatigue mode;
- information that under harsh power cycling conditions high current densities in a thin die metalization might initiate electromigration effects close to wire bonds.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN and CENELEC shall not be held responsible for identifying any or all such patent rights.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement
- (dop) 2011-09-01
- latest date by which the national standards conflicting PREVIEW with the EN have to be withdrawn (dow) (standards.iteh.ai)

2013-12-01

Annex ZA has been added by CENELEC.

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684b00d358d7/sist-en-60749-34-2011 Endorsement notice

The text of the International Standard IEC 60749-34:2010 was approved by CENELEC as a European Standard without any modification.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application 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.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	EN/HD	<u>Year</u>
IEC 60747-1	2006	Semiconductor devices - Part 1: General	-	-
IEC 60747-2	2000	Semiconductor devices - Discrete devices an integrated circuits - Part 2: Rectifier diodes	d-	-
IEC 60747-6	2000 iT	Semi conductor devices - Part 6: Thyristors ARD PREVIE	f W	-
IEC 60749-3	-	Semiconductor devices - Mechanical and climatic test methods S.ILEI Part 3: External visual examination	EN 60749-3	-
IEC 60749-23	- https://sta	Semiconductor devices Mechanical and climatic test methods ads/sist/a9830ec9-c027-421 Part 23 High temperature operating life	EN 60749-23 53-998f-	-

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IEC 60749-34

Edition 2.0 2010-10

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Semiconductor devices - Mechanical and climatic test methods - Part 34: Power cycling (standards.iteh.ai)

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INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

COMMISSION ELECTROTECHNIQUE INTERNATIONALE

PRICE CODE
CODE PRIX

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ICS 31.080.01 ISBN 978-2-88912-232-5

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

SEMICONDUCTOR DEVICES – MECHANICAL AND CLIMATIC TEST METHODS –

Part 34: Power cycling

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International Standard IEC 60749-34 has been prepared by IEC technical committee 47: Semiconductor devices.

This second edition cancels and replaces the first edition published in 2004 and constitutes a technical revision. The significant changes with respect from the previous edition include:

- the specification of tighter conditions for more accelerated power cycling in the wire bond fatigue mode;
- information that under harsh power cycling conditions high current densities in a thin die metalization might initiate electromigration effects close to wire bonds.