SLOVENSKI STANDARD

SIST EN 60191-6-2:2005

marec 2005

Standardizacija mehanskih lastnosti polprevodniških elementov – 6-2. del: Splošna pravila za pripravo tehničnih risb okrovov polprevodniških elementov za površinsko montažo - Vodilo za konstruiranje okrovov s krogličnimi in stebričnimi priključki v rastru 1,50 mm, 1,27 mm in 1,00 mm (IEC 60191-2-6:2001)

Mechanical standardization of semiconductor devices - Part 6-2: General rules for the preparation of outline drawings of surface mounted semiconductor device packages - Design guide for 1 50 mm, 1, 27 mm and 1, 00 mm pitch ball and column terminal packages (IEC 60191-2-6:2001)

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EUROPEAN STANDARD

EN 60191-6-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

February 2002

ICS 31.080.01

English version

Mechanical standardization of semiconductor devices Part 6-2: General rules for the preparation of outline drawings of surface mounted semiconductor device packages -Design guide for 1,50 mm, 1,27 mm and 1,00 mm pitch ball and column terminal packages

(IEC 60191-6-2:2001)

Normalisation mécanique des disposifs à semiconducteurs Part 6-2: Règles générales pour la préparation des dessins d'encombrement des dispositifs à semiconducteurs pour ARD pyon SMD-Halbleitergehäusen montage en surface -

à broches en forme de billes

Halbleiterbauelementen Teil 6-2: Allgemeine Regeln für die Erstellung von Gehäusezeichnungen Konstruktionsleitfaden für Gehäuse Guide de conception pour les boîtiers ards ite mit Kugel- und Säulenanschlüssen in einem Raster von

Mechanische Normung von

et de colonnes, avec des pas de <u>SIST EN 60191-6-2:200</u>1,50 mm, 1,27 mm und 1,00 mm 1,50 mm, 1,27 mmpet/stu00/mmn.ai/catalog/standards/sist/7b7(HEC-6019196-2:2001) b9e550c8883b/sist-en-60191-6-2-2005 (CEI 60191-6-2:2001)

This European Standard was approved by CENELEC on 2002-02-01. 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 alteration.

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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.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of document 47D/460/FDIS, future edition 1 of IEC 60191-6-2, prepared by SC 47D, Mechanical standardization of semiconductor devices, of IEC TC 47, Semiconductor devices, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60191-6-2 on 2002-02-01.

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) 2002-11-01

 latest date by which the national standards conflicting with the EN have to be withdrawn

(dow) 2005-02-01

Annexes designated "normative" are part of the body of the standard. In this standard, annex ZA is normative.

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60191-6-2:2001 was approved by CENELEC as a European Standard without any modification.

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Annex ZA (normative)

Normative references to international publications with their corresponding European publications

This European Standard incorporates, by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references, the latest edition of the publication referred to applies (including amendments).

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 60191	Series	Mechanical standardization of semiconductor devices	EN 60191	Series

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INTERNATIONAL STANDARD

IEC 60191-6-2

First edition 2001-12

Mechanical standardization of semiconductor devices –

Part 6-2:

General rules for the preparation of outline drawings of surface mounted semiconductor device packages – Design guide for 1,50 mm, 1,27 mm and 1,00 mm pitch ball and column terminal packages

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Normalisation mécanique des dispositifs à semiconducteurs –

Partie 6-2:

Règles générales pour la préparation des dessins d'encombrement des dispositifs à semiconducteurs pour montage en surface – Guide de conception pour les boîtiers à broches en forme de billes et de colonnes, avec des pas de 1.50 mm. 1.27 mm et 1.00 mm

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

MECHANICAL STANDARDIZATION OF SEMICONDUCTOR DEVICES -

Part 6-2: General rules for the preparation of outline drawings of surface mounted semiconductor device packages – Design guide for 1,50 mm, 1,27 mm and 1,00 mm pitch ball and column terminal packages

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 60191-6-2 has been prepared by subcommittee SC 47D: Mechanical standardization of semiconductor devices, of IEC technical committee 47: Semiconductor devices.

The text of this standard is based on the following documents:

FDIS	Report on voting	
47D/460//FDIS	47D/471/RVD	

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

This publication has been drafted in accordance with the ISO/IEC Directives, Part 3.

The committee has decided that the contents of this publication will remain unchanged until 2004. At this date, the publication will be

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

The contents of the corrigendum of October 2002 have been included in this copy.

INTRODUCTION

This design guide is intended to standardize the requirements for all ball and column terminal packages in order to establish common rules for terminal shapes, irrespective of device and package types.

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