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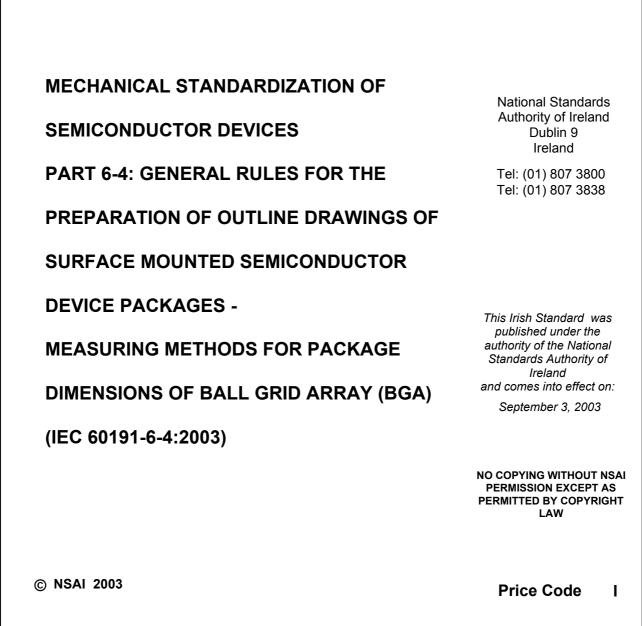


National Standards Authority of Ireland

**IRISH STANDARD** 

I.S. EN 60191-6-4:2003

ICS 31.080.01



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### EUROPEAN STANDARD NORME EUROPÉENNE

### EN 60191-6-4

# EUROPÄISCHE NORM

July 2003

ICS 31.080.01

English version

#### Mechanical standardization of semiconductor devices Part 6-4: General rules for the preparation of outline drawings of surface mounted semiconductor device packages -Measuring methods for package dimensions of ball grid array (BGA) (IEC 60191-6-4:2003)

Normalisation mécanique des dispositifs à semiconducteurs Partie 6-4: Règles générales pour la préparation des dessins d'encombrement des dispositifs à semiconducteurs à montage en surface -Méthodes de mesure pour les dimensions des boîtiers matriciels à billes (CEI 60191-6-4:2003) Mechanische Normung von Halbleiterbauelementen Teil 6-4: Allgemeine Regeln für die Erstellung von Gehäusezeichnungen von SMD-Halbleitergehäusen -Messverfahren für Gehäusemaße von Ball Grid Array (BGA) (IEC 60191-6-4:2003)

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

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

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#### Foreword

The text of document 47D/531/FDIS, future edition 1 of IEC 60191-6-4, 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 60191-6-4 on 2003-07-01.

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) 2004-04-01			
-	latest date by which the national standards conflicting with the EN have to be withdrawn	(dow) 2006-07-01			
Approved designated "normative" are part of the hady of the standard					

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 60191-6-4:2003 was approved by CENELEC as a European Standard without any modification.

EN 60191-6-4:2003

#### 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.

Publication	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60191-6	1990	Mechanical standardization of semiconductor devices Part 6: General rules for the preparation of outline drawings of surface mounted semiconductor device packages	-	-

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