

SLOVENSKI STANDARD SIST EN 60191-6-1:2007

01-januar-2007

Mehanska standardizacija polprevodniških elementov - 6-1. del: Splošna pravila za pripravo tehničnih risb okrovov polprevodniških elementov za površinsko montažo - Vodilo za oblikovanje priključkov v obliki golobjega krila (IEC 60191-6-1:2001)

Mechanical standardization of semiconductor devices -- Part 6-1: General rules for the preparation of outline drawings of surface mounted semiconductor device packages -Design guide for gull-wing lead terminals iTeh STANDARD PREVIEW

Mechanische Normung von Halbleiterbauelementen - Teil 6-1: Allgemeine Regeln für die Erstellung von Gehäusezeichnungen von SMD-Halbleitergehäusen -Konstruktionsleitfaden für Gehäuse mit Gullwing-Anschlüssen

https://standards.iteh.ai/catalog/standards/sist/a918ff69-6c18-4ccd-9d40c6628d419d92/sist-en-60191-6-1-2007

Normalisation mécanique des dispositifs à semi-conducteurs -- Partie 6-1: 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 d'ailes de mouette

Ta slovenski standard je istoveten z: EN 60191-6-1:2001

ICS:

01.100.25	Risbe s področja elektrotehnike in elektronike	Electrical and electronics engineering drawings
31.080.01	Polprevodniški elementi (naprave) na splošno	Semiconductor devices in general
31.240	Mehanske konstrukcije za elektronsko opremo	Mechanical structures for electronic equipment

SIST EN 60191-6-1:2007

en



iTeh STANDARD PREVIEW (standards.iteh.ai)



EUROPEAN STANDARD

EN 60191-6-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2001

ICS 31.080.01

English version

Mechanical standardization of semiconductor devices Part 6-1: General rules for the preparation of outline drawings of surface mounted semiconductor device packages -Design guide for gull-wing lead terminals (IEC 60191-6-1:2001)

Normalisation mécanique des dispositifs à Mechanische Normung von semi-conducteurs Halbleiterbauelementen Partie 6-1: Règles générales Teil 6-1: Allgemeine Regeln für die pour la préparation des dessins Erstellung von Gehäusezeichnungen d'encombrement des dispositifs à semiconducteurs pour montage en von SMD-Halbleitergehäusen -Konstruktionsleitfaden für Gehäuse mit standards.itelGullwing-Anschlüssen surface -Guide de conception pour les boîtiers à (IEC 60191-6-1:2001)

broches en forme d'ailes de mouetter EN 60191-6-12007

(CEI 60191-6-1:2001) standards.iteh.ai/catalog/standards/sist/a918ff69-6c18-4ccd-9d40-

c6628d419d92/sist-en-60191-6-1-2007

This European Standard was approved by CENELEC on 2001-12-01. 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 alteration.

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.

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

© 2001 CENELEC - All rights of exploitation in any form and by any means reserved worldwide for CENELEC members.

- 2 -

Foreword

The text of document 47D/459/FDIS, future edition 1 of IEC 60191-6-1, 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 60191-6-1 on 2001-12-01.

The following dates were fixed:

In this standard, annex ZA is normative. Annex ZA has been added by CENELEC.

 latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement 	(dop) 2002-09-01			
 latest date by which the national standards conflicting with the EN have to be withdrawn 	(dow) 2004-12-01			
Annexes designated "normative" are part of the body of the standard.				

Endorsement notice

The text of the International Standard IEC 60191-6-1:2001 was approved by CENELEC as a European Standard without any modification arcs.iteh.ai)

EN 60191-6-1:2001

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	-	-
	: T	A STANDADD DDEV		

iTeh STANDARD PREVIEW (standards.iteh.ai)



iTeh STANDARD PREVIEW (standards.iteh.ai)

INTERNATIONAL STANDARD



First edition 2001-10

Mechanical standardization of semiconductor devices –

Part 6-1: General rules for the preparation of outline drawings of surface mounted semiconductor device packages – Design guide for gulf-wing lead terminals

<u>SIST EN 60191-6-1:2007</u> https://standards.iteh.ai/catalog/standards/sist/a918ff69-fc18-4ccd-9d40-Normalisation_mécanique_des_dispositifs à semi-conducteurs –

Partie 6-1: 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 d'ailes de mouette

© IEC 2001 — Copyright - all rights reserved

No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

International Electrotechnical Commission 3, rue de Varembé Geneva, Switzerland Telefax: +41 22 919 0300 e-mail: inmail@iec.ch IEC web site http://www.iec.ch



Commission Electrotechnique Internationale International Electrotechnical Commission Международная Электротехническая Комиссия



G

For price, see current catalogue

INTERNATIONAL ELECTROTECHNICAL COMMISSION

MECHANICAL STANDARDIZATION OF SEMICONDUCTOR DEVICES -

Part 6-1: General rules for the preparation of outline drawings of surface mounted semiconductor device packages – Design guide for gull-wing lead terminals

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.
- 2) The formal decisions or agreements of the IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested National Committees.
- 3) The documents produced have the form of recommendations for international use and are published in the form of standards, technical specifications, technical reports or guides and they are accepted by the National Committees in that sense.
- 4) In order to promote international unification, IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and the corresponding national or regional standard shall be clearly indicated in the latter. <u>SIST EN 60191-6-1:2007</u>
- 5) The IEC provides not marking procedure to an archite approval and cannot be rendered responsible for any equipment declared to be in conformity with one of its standards6-1-2007
- 6) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. The IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 60191-6-1 has been prepared by subcommittee 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/459/FDIS	47D/470/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 2003. At this date, the publication will be

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

A bilingual version of this publication may be issued at a later date.

MECHANICAL STANDARDIZATION OF SEMICONDUCTOR DEVICES –

Part 6-1: General rules for the preparation of outline drawings of surface mounted semiconductor device packages – Design guide for gull-wing lead terminals

1 Scope

This part of IEC 60191 covers the requirements for the design rule of terminal shape plastic packages with gull-wing leads; e.g., QFP, SOP, SSOP, TSOP, etc. which are packages classified as Form E in IEC 60191-4¹). This publication is intended to establish common rules on terminal shapes irrespective of package types.

2 Normative references

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.

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

3 Definitions SIST EN 60191-6-1:2007

https://standards.iteh.ai/catalog/standards/sist/a918ff69-6c18-4ccd-9d40-

6628d419d92/sist-en-60191-6-1-2007

For the purpose of this part of IEC 60191, the definitions of IEC 60191-6 apply as well as the following definition:

3.1

gull-wing lead

compliant lead bent down from the body of the package with a foot at the end pointing away from the package

¹⁾ IEC 60191-4:1999, Mechanical standardization of semiconductor devices – Part 4: Coding system and classification into forms of package outlines for semiconductor device packages