



SLOVENSKI STANDARD  
SIST EN 150008:2002  
01-september-2002

**Blank detail specification: Ambient-rated rectifier diodes**

Blank Detail Specification: Ambient-rated rectifier diodes

Vordruck für Bauartspezifikation: Umgebungsbezogene Gleichrichter-Dioden

Spécification particulière cadre: Diodes de redressement à température ambiante spécifiée

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Ta slovenski standard je istoveten z: **EN 150008:1992**

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**ICS:**

29.200	W{ ^i} ã äÜ! ^c[ ] ã Æ Ùcã ãã [ Á   ^ \ dã ] } ã ã ã ã	Rectifiers. Convertors. Stabilized power supply
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EUROPEAN STANDARD  
 NORME EUROPÉENNE  
 EUROPÄISCHE NORM

EN 150008

December 1992

UDC

Supersedes CECC 50008 Issue 3:1991

Descriptors: Quality, electronic components, diodes

English version

## Blank Detail Specification: Ambient-rated rectifier diodes

Spécification Particulière Cadre:  
 Diodes de redressement à température  
 ambiante spécifiée

Vordruck für Bauartspezifikation:  
 Umgebungsbezogene Gleichrichter-Dioden

### iTeh STANDARD PREVIEW (standards.iteh.ai)

This European Standard was approved by the CENELEC Electronic Components Committee (CECC) on 3 December 1992. CENELEC members are bound to comply with 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 General Secretariat of the CECC 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 CECC General Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and United Kingdom. The membership of the CECC is identical, with the exception of the national electrotechnical committees of Greece, Iceland and Luxembourg.

## CECC

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

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

## Preface

The CENELEC Electronic Components Committee (CECC) is composed of those member countries of the European Committee for Electrotechnical Standardization (CENELEC) who wish to take part in a harmonized System for electronic components of assessed quality.

The object of the System is to facilitate international trade by the harmonization of the specifications and quality assessment procedures for electronic components, and by the grant of an internationally recognized Mark, or Certificate, of Conformity. The components produced under the System are thereby acceptable in all member countries without further testing.

This specification has been formally approved by the CECC, and has been prepared for those countries taking part in the System who wish to issue national harmonized specifications for

**Ambient-rated rectifier diodes.** It should be read in conjunction with the current regulations for the CECC System.

Copies of it can be obtained from the addresses shown on the blue fly sheet.

## Foreword

This specification was prepared by CECC WG 7 "Rectifier diodes and thyristors".

It is based, wherever possible, on the Publications of the International Electrotechnical Commission (IEC).

The CECC voting procedure for the conversion of publication CECC 50008 Issue 3:1991 to EN has resulted in a positive vote.

The voting report [document CECC(Secretariat)3254/11.92] has been submitted for formal approval and has been accepted. The reference document was approved by CECC as EN 15008:1992 on 3 December 1992.

The following dates were fixed:

- latest date of announcement of the EN at national level (doa) 1993-06-30
- latest date of publication of an identical national standard (dop) 1993-12-30
- latest date of declaration of national standards obsolescence 1993-12-30
- latest date of withdrawal of conflicting national standards (dow) 2003-06-30

Förderverein für Elektrotechnische Normung (FEN) e. V.  
Cenelec Electronic Components Committee

**CECC**

Système Harmonisé d'Assurance de la Qualité  
des Composants Electroniques



SPECIFICATION PARTICULIERE CADRE:  
DIODES DE REDRESSEMENT A  
TEMPERATURE AMBIANTE  
SPECIFIEE

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SIST EN 150008:2002  
Harmonized System of Quality Assessment for  
Electronic Components  
<https://standards.iteh.ai/catalog/standards/sist/9ae7e1ed-9122-4e16-8dad-ac80d2aa1924/sist-en-150008-2002>

BLANK DETAIL SPECIFICATION:  
AMBIENT-RATED RECTIFIER  
DIODES

**3** Edition  
Issue  
Ausgabe

Harmonisiertes Gütebestätigungssystem für  
Bauelemente der Elektronik

VORDRUCK FÜR BAUARTSPEZIFIKATIONEN:  
UMGEBUNGSBEZOGENE  
GLEICHRICHTER-DIODEN

**CECC 50 008**

1991

**EN 150008:1992****Foreword**

The CENELEC Electronic Components Committee (CECC) is composed of those member countries of the European Committee for Electrotechnical Standardization (CENELEC) who wish to take part in a harmonized System for electronic components of assessed quality.

The object of the System is to facilitate international trade by the harmonization of the specifications and quality assessment procedures for electronic components, and by the grant of an internationally recognized Mark, or Certificate, of Conformity. The components produced under the System are thereby acceptable in all member countries without further testing.

This specification has been formally approved by the CECC, and has been prepared for those countries taking part in the System who wish to issue national harmonized specifications for AMBIENT-RATED RECTIFIER DIODES. It should be read in conjunction with the current regulations for the CECC System.

At the date of printing of this specification, the member countries of the CECC are Austria, Belgium, Denmark, Finland, France, Germany, Ireland, Italy, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom, and copies of it can be obtained from the addresses shown on the blue fly sheet.

**Preface**

This blank detail specification was prepared by CECC WG 7: *Rectifier diodes and thyristors*.

It is based, wherever possible, on the Publications of the International Electrotechnical Commission.

The text of this this third issue consists of the text of CECC 50008 Issue 2 (1982) amended in accordance with the ratified new material (specifying the characteristics which apply to avalanche and controlled avalanche rectifier diodes only) introduced in the following document:

**Document**

CECC(Secretariat)2704

**Date of Voting**

June 1991

**Report on the Voting**

CECC(Secretariat)2815

**Effective date**

This Issue 3 shall become effective for all new applications for qualification approval on 15 August 1991. Issue 2 shall remain valid to cover all past approvals.

**NOTE** It is recognized that the lay-out proposed cannot be applied to all detail specifications based on this document. For instance, it may be preferable to indicate the limiting values in the form of a table when several similar devices appear in the same specification.

**Key for page 1**

The numbers between square brackets on page 1 correspond to the following indications which should be given:

**Identification of the detail specification**

- [1] The name of National Standards Organization under whose authority the detail specification is published, and if applicable the organization from whom the DS is available.
- [2] The CECC Symbol and the number allotted by the CECC General Secretariat to the completed detail specification.
- [3] The number and issue number of the CECC generic or sectional specification as relevant; also national reference if different.
- [4] If different from the CECC number, the national number of the detail specification, date of issue and any further information required by the national system together with any amendment numbers.

**Identification of the component**

- [5] A short description of the type of component.
- [6] Information on typical construction (where applicable).
- [7] Outline drawing and/or reference to the relevant document for outlines.
- [8] Application or group of applications covered and quality assessment levels.
- [9] Reference data on the most important properties, to allow comparison between the various component types.


For [5] and [6] the text given should be suitable for an entry in CECC 00200 or CECC 00300.

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SIST EN 150008:2002

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Specification available from:	[1]	Page: of:	CECC 50008 Issue 3	[2]	
ELECTRONIC COMPONENT OF ASSESSED QUALITY IN ACCORDANCE WITH	[3]			[4]	
DETAIL SPECIFICATION FOR AMBIENT RATED RECTIFIER DIODES Type number(s): Structurally similar devices: (if appropriate)				[5]	
<b>CONSTRUCTION</b> Semiconductor material: Silicon, germanium Encapsulation material: Metal/glass; metal/ceramic, plastic, other				[6]	
<b>1 Mechanical description</b> Outline references: Code A from IEC 192-2: National: OR: Base and case references: Codes B and C from IEC 192-2: National: AND/OR: Outline drawing Marking: Terminal identification: see CECC 50000-2.5.1	[7]				
		<b>2 Electrical application</b> Rectifying up to a current of 5 A.		[8]	
			<b>3 Levels of quality assessment</b> F - L		
<b>4 Limiting values (Absolute maximum system)</b> These apply over the operating temperature range, unless otherwise stated. The following ratings shall be given.				[9]	
4.1 <b>Voltage:</b> Any Qualification such as time, frequency, temperature, mounting method etc. shall be stated.					
4.1.1 Crest working reverse voltage					$V_{RWM}$
4.1.2 Repetitive peak reverse voltage					$V_{RRM}$
4.1.3 Non-repetitive peak reverse voltage					$V_{RSM}$
4.1.4 Continuous (DC) reverse voltage (if applicable)					$V_R$
4.2 <b>Current:</b> Any qualification such as time, frequency, temperature, mounting method etc. shall be stated.					
4.2.1 Mean forward current at the breakpoint temperature (see Figure 1)					$I_F$ (AV)max.
In single phase circuits, sinusoidal 180° conduction angle with resistive load.					
4.2.2 Repetitive peak forward current (if applicable)					$I_{FRM}$
4.2.3 Continuous (direct) forward current (if applicable)					$I_F$
4.2.4 Surge (non-repetitive) forward current					$I_{FSM}$
The surge (non-repetitive) forward current corresponds normally to the maximum current permissible for a half sine wave (10 ms at 50 Hz) without reapplication of reverse voltage. The surge (non-repetitive) current rating corresponds to a current applied after continuous operation at the maximum value of the mean forward current.					
See the current Qualified Products List for availability of components qualified under this detail specification.					