

## SLOVENSKI STANDARD SIST EN 120002:2002

01-september-2002

Blank detail specification: Infrared emitting diodes, infrared emitting diode arrays

Blank Detail Specification: Infrared emitting diodes, infrared emitting diode arrays

VFB: Infrarot emittierende Dioden und infrarot emittierende Dioden-Zeilen

SPC: Diodes émettrices en infrarouge, réseaux de diodes émettrices en infrarouges

Ta slovenski standard je istoveten z: EN 120002:1992

<u>SIST EN 120002:2002</u>

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en

ICS:

31.260 Optoelektronika, laserska Op

Optoelectronics. Laser

oprema

equipment

SIST EN 120002:2002

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## EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN 120002

July 1992

| UDC:

Supersedes CECC 20001 Issue 1:1983 |

Descriptors: Quality, electronic components, diodes; diode arrays

English version

## Blank Detail Specification: Infrared emitting diodes, infrared emitting diode arrays

Spécification Particulière Cadre: Diodes émettrices en infrarouge, réseaux de diodes émettrices en infrarouge Vordruck für Bauartspezifikation: Infrarot emittierende Dioden und infrarot emittierende Dioden-Zeilen

## iTeh STANDARD PREVIEW

This European Standard was approved by the CENELEC Electronic Components Committee (CECC) on 27 January 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

#### 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 European Standard was prepared by CECC WG 20, "Opto-Electronic Components and Liquid Crystal Devices".

The text of the draft based on document CECC 20002 Issue 1:1983 was submitted to the formal vote for conversion to a European Standard; DARD PREVIEW together with the voting report, circulated as document CECC(Secretariat)2999 the following documents were approved by CECC as EN 1200021dards.iteh.ai) on 27 January 1992:

CECC 20002 Issue 1:1983 with Amendment 1 SIST EN 120002:2002

The following dates were fixed tps://standards.itch.ai/catalog/standards/sist/7d363327-fcd9-4927-84c6-

latest date of announcement of the EN at national level
 7759a47e7717/sist-en-120002-2002
 (doa) 1992-12-22

latest date of publication
 of an identical national
 standard (dop) 1993-06-22

latest date of declaration
 of national standards
 obsolescence
 1993-06-22

latest date of withdrawal
 of conflicting national

standards (dow) 2002-12-22

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**CECC 20002** 

European Committee for Electrotechnical Standardization (CENELEC)
Cenelec Electronic Components Committee



Système Harmonisé d'Assurance de la Qualité des Composants Electroniques

SPECIFICATION PARTICULIERE CADRE:

DIODES EMETTRICES
EN INFRAROUGE,
RESEAUX DE DIODES
EMETTRICES EN INFRAROUGE

iTeh STANDARD PREVIEW (standards.iteh.ai)

Harmonized System of Quality Assessment for Electronic Components PN 120002:2002

BLANK DETAIL SPECIFICATION:2-200

INFRARED EMITTING DIODES, INFRARED EMITTING DIODE ARRAYS

> Harmonisiertes Gütebestätigungssystem für Bauelemente der Elektronik

> VORDRUCK FÜR BAUARTSPEZIFIKATION:

INFRAROT EMITTIERENDE DIODEN UND INFRAROT EMITTIERENDE DIODEN-ZEILEN

Edition issue Ausgabe

-fcd9-4927-84c6-

**CECC 20002** 

1983

#### EN 120002:1992

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#### 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 accepted by all member countries without further testing.

This document 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 INFRARED EMITTING DIODES, INFRARED EMITTING DIODE ARRAYS. It should be read conjunction with document CECC 00100: Basic Rules (1974).

#### Preface

This blank detail specification was prepared by CECC Working 20: "Semiconductor optoelectronic and liquid crystal devices". It is one of a series of blank detail specifications for semiconductor devices, based on the generic specification CECC 20000.

#### Voting

The text of this blank detail specification was circulated to the CECC for voting in the documents indicated below, and was ratified by the President of the CECC for printing as a CECC specification.

Document CECC(Secretariat) 1089 November 1981 CECC(Secretariat) 1090 November 1981 CECC(Secretariat) 1216

https://starNOTE.it.This.specification is published initially in English and French. The German text will follow as soon as it has been prepared. 120002-2002

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	INFRARED EMITTING DIODES	, INI	KARED E	EMITTING DIODE	E ARRAYS				
L , ,		Page of	CECC 20002-XXX [CECC detail spec number plus issue and/or date]	cification e number		2 <b>E</b>			
QUALITY IN ACCORDANCE WITH:  CECC 20000, issue [and national references if different]				[National number of detail spécification 4] This box may not be used if National number includes CECC number]					
1 Mech	Mechanical description				TION FOI	₹:	<b>⑤</b>		
$ \begin{array}{ccc} \text{case references (codes B + C):} & \text{approp} \\ & -\text{from IEC 191-2:} & \text{ORDERING} \\ & -\text{national [if desired]} & \text{INFORMA} \\ \end{array} $				[Type number (s) of relevant device (s) and, if appropriate structurally similar devices]					
				ATION:	see clause 7 of this specification				
			2 Sho	rt description	•		6		
OUTLINE DRAWING AND CONNECTIONS (Terminal connected to case, if any) RI  OUTLINE DRAWING AND IR EMITTING DIODES/IR EMIT ARRAYS PREVIEW							DIC	DE	
[The outline drawing may correspond to the device itself and/or the device with its mounting clip]  Semiconductor material: Ga P/ Encapsulation: metal/glass/plastic/ Application:									
details	e transferred to, or given with more is, in clause 9 of this specification tand	ards/s	ist/7d363327	7-fcdasé9ratedc6- (	(Tcase)				
MARK [see 2. specifi	5 of CECC 20000 and/or clause 6 of th	t-en-		portant quick refer rrow beam may be		, for e	exam	ple	
áss				el (s) of qualitessment levant]	y		8		
4 Limiting values (Absolute maximum rating system)							9		
	apply per diode over the operating ter				e stated.				
	X denotes that a value shall be inser								
Clause	Repeat only clause numbers used, v	ed, with text. Additional values, if   Value							
CECC 20002	any, shall be given at the appropriat (s). Curves should preferably be give	e pla	ace withou	t clause number	Symbol	min	max	Unit	
						IV	X	°C	
4.1	Operating ambient or case temperat	ures			T <sub>amb/case</sub>	X		i .	
4.1	Operating ambient or case temperat Storage temperature	ures			$egin{array}{c} T_{ ext{amb/case}} \ T_{ ext{stg}} \ \end{array}$	X	X	$^{\circ}\mathrm{C}$	
	-	ice to	o case shal	l be given duration) may		ļ		°C	
4.2	Storage temperature Soldering temperature Soldering time and minimum distant [Recommended mounting conditions	ice to	o case shal	l be given duration) may	$T_{\rm stg}$	ļ	X	_	
4.2	Storage temperature Soldering temperature Soldering time and minimum distant [Recommended mounting conditions be given in clause 9.1 of this documents.]	ice to s (ter ent] atins	o case shal nperature, g ambient (	duration) may	${ m T_{stg}}$ ${ m T_{sld}}$	ļ	X X	°C	