
**Polprevodniške optoelektronske naprave za uporabo v sistemih z optičnimi vlakni
- 1. del: Specifikacijska predloga za pomembne naznačene vrednosti in
karakteristike - Dopnilo A1**

Semiconductor optoelectronic devices for fibre optic system applications - Part 1:
Specification template for essential ratings and characteristics

Optoelektronische Halbleiterbauelemente für Anwendungen in Lichtwellenleitersystemen
- Teil 1: Vorlage für Leistungsspezifikationen für wesentliche Grenz- und Kennwerte

Dispositifs optoélectroniques à semiconducteurs pour application dans les systèmes à
fibres optiques - Partie 1: Modèle de spécification relatif aux valeurs et caractéristiques
essentielles

[SIST EN 62007-1:2015/oprA1:2022](https://standards.iteh.ai/catalog/standards/sist/847864bc-612d-4664-92d2-2e5211113b5a/sist-en-62007-1-2015-oprA1-2022)

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Ta slovenski standard je istoveten z: EN 62007-1:2015/prA1:2022

ICS:

31.080.01	Polprevodniški elementi (naprave) na splošno	Semiconductor devices in general
31.260	Optoelektronika, laserska oprema	Optoelectronics. Laser equipment
33.180.01	Sistemi z optičnimi vlakni na splošno	Fibre optic systems in general

SIST EN 62007-1:2015/oprA1:2022 **en**

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

SIST EN 62007-1:2015/oprA1:2022

<https://standards.iteh.ai/catalog/standards/sist/847864bc-612d-4664-92d2-2e5211113b5a/sist-en-62007-1-2015-opra1-2022>



86C/1785/CDV

COMMITTEE DRAFT FOR VOTE (CDV)

PROJECT NUMBER:
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2022-04-22

CLOSING DATE FOR VOTING:
2022-07-15

SUPERSEDES DOCUMENTS:
86C/1762/CD, 86C/1781/CC

IEC SC 86C : FIBRE OPTIC SYSTEMS AND ACTIVE DEVICES	
SECRETARIAT: United States of America	SECRETARY: Mr Fred Heismann
OF INTEREST TO THE FOLLOWING COMMITTEES:	PROPOSED HORIZONTAL STANDARD: <input type="checkbox"/> Other TC/SCs are requested to indicate their interest, if any, in this CDV to the secretary.
FUNCTIONS CONCERNED: <input type="checkbox"/> EMC <input type="checkbox"/> ENVIRONMENT <input checked="" type="checkbox"/> QUALITY ASSURANCE <input type="checkbox"/> SAFETY	
<input checked="" type="checkbox"/> SUBMITTED FOR CENELEC PARALLEL VOTING Attention IEC-CENELEC parallel voting The attention of IEC National Committees, members of CENELEC, is drawn to the fact that this Committee Draft for Vote (CDV) is submitted for parallel voting. The CENELEC members are invited to vote through the CENELEC online voting system.	<input type="checkbox"/> NOT SUBMITTED FOR CENELEC PARALLEL VOTING

This document is still under study and subject to change. It should not be used for reference purposes.

Recipients of this document are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

TITLE:

Amendment 1 - Semiconductor optoelectronic devices for fibre optic system applications - Part 1: Specification template for essential ratings and characteristics

PROPOSED STABILITY DATE: 2026

NOTE FROM TC/SC OFFICERS:

INTERNATIONAL ELECTROTECHNICAL COMMISSION

SEMICONDUCTOR OPTOELECTRONIC DEVICES
FOR FIBRE OPTIC SYSTEM APPLICATIONS –

Part 1: Specification template for essential ratings and characteristics

AMENDMENT 1

FOREWORD

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Amendment 1 to IEC 62148-12:2007 has been prepared by subcommittee 86C: Fibre optic systems and active devices, of IEC technical committee 86: Fibre optics.

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

Draft	Report on voting
86C/XX/XXXX	86C/XX/XXX

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

The language used for the development of this Amendment is English.

53 This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in
54 accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement,
55 available at www.iec.ch/members_experts/refdocs. The main document types developed by
56 IEC are described in greater detail at www.iec.ch/standardsdev/publications/.

57 The committee has decided that the contents of this document will remain unchanged until the
58 stability date indicated on the IEC website under webstore.iec.ch in the data related to the
59 specific document. At this date, the document will be

- 60 • reconfirmed,
- 61 • withdrawn,
- 62 • replaced by a revised edition, or
- 63 • amended.

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67 2 Normative references

68 *Delete, in the list of normative references, the second existing list item ("IEC 60747-5-1") .*

69 *Add, after the first existing list item in the list of normative references, the following three*
70 *references:*

71 IEC 60747-5-4, *Semiconductor devices - Part 5-4: Optoelectronic devices - Semiconductor lasers*

72 IEC 60747-5-6, *Semiconductor devices - Part 5-6: Optoelectronic devices - Light emitting diodes*

73 IEC 60747-5-7, *Semiconductor devices - Part 5-7: Optoelectronic devices - Photodiodes and*
74 *phototransistors*

75

76 3.1 Terms and definitions

77 *Replace, in the first existing paragraph, the document reference "IEC 60747-5-1" with the*
78 *following new references "IEC 60747-5-4, IEC 60747-5-6 and IEC 60747-5-7".*

79

80 3.1.1

81 PIN photodiode

82 *Replace the existing text of the definition of 3.1.1 with the following new text:*

83 photodiode with a large intrinsic region sandwiched between p- and n-doped semiconducting
84 regions used for the detection of optical radiation

85 [SOURCE: IEC TR 61931:1998, 2.7.49]

86

87 3.1.2

88 avalanche photodiode

89 APD

90 *Replace the existing text of the definition of 3.1.2 with the following new text:*

91 photodiode operating with a bias voltage such that the primary photocurrent undergoes
92 amplification by cumulative multiplication of charge carriers