



INTERNATIONAL STANDARD

**Semiconductor devices -
Part 2: Discrete devices - Rectifier diodes**



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FOREWORD.....	4
1 Scope.....	6
2 Normative references.....	6
3 Terms and definitions.....	6
3.1 General.....	6
3.2 Voltages.....	7
3.3 Currents.....	8
3.4 Power dissipation.....	10
3.5 Switching characteristics.....	11
3.6 Mechanical ratings.....	14
4 Letter symbols.....	14
4.1 General.....	14
4.2 List of letter symbols.....	14
5 Essential ratings and characteristics.....	16
5.1 General.....	16
5.2 Ratings (limiting values).....	16
5.2.1 Storage temperature (T_{stg}).....	16
5.2.2 Operating ambient, case, heatsink or junction temperature (T_a , T_c , T_s or T_{vj}).....	16
5.2.3 Non-repetitive peak reverse voltage (V_{RSM}) (where appropriate).....	16
5.2.4 Repetitive peak reverse voltage (V_{RRM}).....	16
5.2.5 Reverse voltage (V_R) (where appropriate).....	16
5.2.6 Forward currents.....	17
5.2.7 Peak case non-rupture current (I_{RSMC}) (where appropriate).....	18
5.2.8 Reverse power (for avalanche rectifier diodes).....	18
5.2.9 Mechanical ratings.....	18
5.3 Characteristics.....	19
5.3.1 Forward voltages.....	19
5.3.2 Breakdown voltage (V_{BR}) (of avalanche rectifier diodes).....	19
5.3.3 Reverse current ($I_{R(D)}$).....	19
5.3.4 Repetitive peak reverse current (I_{RRM}) (where appropriate).....	19
5.3.5 Reverse recovery characteristics (where appropriate).....	19
5.3.6 Forward recovery characteristics (where appropriate).....	21
5.3.7 Thermal resistance (R_{th}).....	21
5.3.8 Transient thermal impedance ($Z_{th}(t)$) (where appropriate).....	21
6 Measuring methods.....	21
6.1 General.....	21
6.2 Verification of ratings (limiting values).....	21
6.2.1 Non-repetitive peak reverse voltage (V_{RSM}).....	21
6.2.2 Non-repetitive surge forward current (I_{FSM}).....	22
6.2.3 Repetitive peak reverse power (P_{RRM}) or surge reverse power (P_{RSM}) of avalanche rectifier diodes.....	24
6.2.4 Peak case non-rupture current (I_{RSMC}).....	28
6.3 Measuring methods for electrical characteristics.....	30

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6.3.2	Breakdown voltage ($V_{(BR)}$) of avalanche rectifier diodes	33
6.3.3	Reverse current (I_R)	34
6.3.4	Repetitive peak reverse current (I_{RRM})	35
6.3.5	Recovered charge (Q_r), reverse recovery time (t_{rr}), reverse recovery energy (E_{rr}) and reverse recovery softness factor (S_{rr})	36
6.3.6	Capacitive charge (Q_C)	41
6.3.7	Forward recovery time (t_{fr}) and peak forward recovery voltage (V_{frm})	42
6.4	Measuring methods for thermal properties	44
6.4.1	General	44
6.4.2	Thermal resistance (R_{th}) and transient thermal impedance ($Z_{th}(t)$)	45
7	Requirements for type tests, routine tests, endurance tests and marking	47
7.1	Type tests	47
7.2	Routine tests	47
7.3	Endurance tests	48
7.3.1	General	48
7.3.2	List of endurance tests	48
7.3.3	Conditions for endurance tests	48
7.3.4	Acceptance-defining characteristics and acceptance criteria for endurance tests	48
7.3.5	Acceptance-defining characteristics and acceptance criteria for reliability tests	49
7.4	Measuring and test methods	49
7.5	Marking	49
	Bibliography	50
	Figure 1 – Reverse voltage ratings	7
	Figure 2 – Forward current ratings	9
	Figure 3 – Voltage waveform during forward recovery (Method I)	11
	Figure 4 – Voltage waveform during forward recovery (Method II)	12
	Figure 5 – Current waveform during reverse recovery	12
	Figure 6 – Voltage and current waveforms and recovered charge during reverse recovery	13
	Figure 7 – Recovered charge Q_r , peak reverse recovery current I_{rrm} , reverse recovery time t_{rr} (idealized characteristics)	20
	Figure 8 – Circuit diagram for verification of non-repetitive peak reverse voltage	22
	Figure 9 – Circuit diagram for verification of non-repetitive surge forward current	23
	Figure 10 – Circuit diagram for verification of repetitive peak reverse power (P_{RRM}) or surge reverse power (P_{RSM}) of avalanche rectifier diodes	25
	Figure 11 – Triangular reverse current waveform	25
	Figure 12 – Sinusoidal reverse current waveform	26
	Figure 13 – Rectangular reverse current waveform	26
	Figure 14 – Verification of surge reverse power P_{RSM} versus breakdown	27
	Figure 15 – Circuit diagram for verification of peak case non-rupture current	28
	Figure 16 – Waveform of reverse current through diode	29

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Figure 18 – Circuit diagram for measurement of average forward voltage and/or peak forward voltage (AC method)	31
Figure 19 – Graphic representation of forward voltage versus current characteristic	32
Figure 20 – Circuit diagram for measurement of peak forward voltage (pulse method)	32
Figure 21 – Circuit diagram for measurement of breakdown voltage	33
Figure 22 – Circuit diagram for measurement of reverse current	34
Figure 23 – Circuit diagram for measurement of peak reverse current	35
Figure 24 – Circuit diagram for measurement of reverse recovery characteristics	36
Figure 25 – Current waveform through diode during reverse recovery (half sinusoidal method)	37
Figure 26 – Circuit diagram for measurement of reverse recovery characteristics (rectangular method)	39
Figure 27 – Current waveform through diode during reverse recovery (rectangular method)	39
Figure 28 – Circuit diagram for measurement of capacitive charge	41
Figure 29 – Circuit diagram for measurement of forward recovery	42
Figure 30 – Current waveform during forward recovery	43
Figure 31 – Voltage waveform during forward recovery	43
Figure 32 – Circuit diagram for measurement of thermal resistance and transient thermal impedance	45
Figure 33 – Calibration curve showing typical variation of forward voltage at measuring current with case temperature (when heated from outside, i.e. $T_c = T_{vj}$)	46
Table 1 – Voltages	15
Table 2 – Currents	15
Table 3 – Power dissipation	15
Table 4 – Switching characteristics	16
Table 5 – Minimum type and routine tests for rectifier diodes	48
Table 6 – Acceptance-defining characteristics for acceptance after endurance tests	48

Semiconductor devices - Part 2: Discrete devices - Rectifier diodes

FOREWORD

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IEC 60747-2 has been prepared by subcommittee 47E: Discrete semiconductor devices, of IEC technical committee 47: Semiconductor devices. It is an International Standard.

This fourth edition cancels and replaces the third edition published in 2016. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) the terms and definitions for partial thermal resistance junction-to-case have been added;
- b) Clauses 3, 4, 5, 6 and 7 have been amended with some deletions of information no longer in use and with some necessary additions.

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Draft	Report on voting
47E/861/FDIS	47E/869/RVD

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 International Standard is English.

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

This International Standard is to be used in conjunction with IEC 60747-1:2006 and its Amendment 1:2010.

A list of all parts in the IEC 60747 series, published under the general title *Semiconductor devices*, can be found on the IEC website.

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

- reconfirmed,
- withdrawn, or
- revised.

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This part of IEC 60747 specifies product specific standards for terminology, letter symbols, essential ratings and characteristics (properties), measuring and test methods, requirements for type tests, routine tests, endurance tests and marking for the following discrete semiconductor devices:

- generic rectifier diodes;
- avalanche rectifier diodes;
- fast-switching rectifier diodes;
- Schottky barrier diodes.

If no ambiguity is likely to result, any of the above will be referred to as diodes.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 60050-521, *International Electrotechnical Vocabulary - Part 521: Semiconductor devices and integrated circuits*, available at <https://www.electropedia.org>

IEC 60747-1:2006, *Semiconductor devices - Part 1: General*
IEC 60747-1:2006/AMD1: 2010

IEC 60749-23, *Semiconductor devices - Mechanical and climatic test methods - Part 23: High temperature operating life*

IEC 60749-25, *Semiconductor devices - Mechanical and climatic test methods - Part 25: Temperature cycling*

IEC 60749-34, *Semiconductor devices - Mechanical and climatic test methods - Part 34: Power cycling*