IEC 60747-15

Edition 3.0 2024-10

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Semiconductor devices –
Part 15: Discrete devices – Isolated power semiconductor devices

Dispositifs à semiconducteurs –
Partie 15: Dispositifs discrets – Dispositifs de puissance à semiconducteurs isolés

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FOREWORD

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IEC 60747-15 has been prepared by subcommittee 47E: Discrete semiconductor devices, of IEC technical committee 47: Semiconductor devices. It is an International Standard.

This third edition cancels and replaces the second edition published in 2010. This edition constitutes a technical revision.

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

a) The intelligent power semiconductor modules (IPM), which was previously excluded from the first and second edition, is now included in this document (Annex C);
b) The thermal resistance is described for each switch (6.2.4);
c) Added isolation test between temperature sensor and terminals, in case there is an agreement with the user (6.1.2).

The text of this International Standard is based on the following documents:

Draft	Report on voting
47E/832/FDIS	47E/844/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 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

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