

AS 1955, Part 1—1977  
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Australian Standard<sup>®</sup>

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**SEMICONDUCTOR CONVERTORS**

**Part 1-GENERAL**

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The following scientific, industrial and governmental organizations and departments were officially represented on the committee entrusted with the preparation of this standard:

Associated Chambers of Manufacturers of Australia  
Australian Electrical Manufacturers Association  
Bureau of Steel Manufacturers of Australia  
Department of Defence  
Electricity Supply Association of Australia  
Railways of Australia Committee  
Telecom Australia  
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## PREFACE

This standard was originally prepared by the Association's Committee EL/27, Power Electronics, in 1977. In 1983 the committee reviewed the standard and reconfirmed it as an Australian standard without change. It is based on Publication 146, Semiconductor Convertors, published by the International Electrotechnical Commission (IEC). Acknowledgement is made of the assistance received from this source.

The IEC standard was examined in terms of Australian practice and amended where necessary. In the main the amendments consist of editorial changes not involving change in basic meanings, renumbering of clauses and re-arrangement of Section 1 to ensure conformity with the style of Australian standards.

Technical changes are few, but where the standard does deviate technically from the IEC standard by way of actual change, or cross-reference to an appropriate Australian standard, this change is indicated by a rule in the margin.

The purpose of the standard is to define the terminology and specify the symbols, requirements and test methods appropriate to semiconductor convertors and transformers. Information is also given on individual semi-conductor diodes and thyristors. Further information on these components may be obtained by reference to the Australian equivalents of IEC Publication 147, Part 0, 1 and 2 and 148. These documents are listed below.

Attention is drawn to the need to cross-refer to the following Australian standards to amplify the information given herein:

AS 1102	Graphical Symbols for Electro-technology Part 5—Semiconductor Devices Part 10—Signal Transmission Symbols
AS 1852	International Electrotechnical Vocabulary (05) Fundamental Definitions (11) Static Convertors
AS C61	Power Transformers
AS C320	Classification of Insulating Materials for Electrical Machinery and Apparatus on the Basis of Thermal Stability in Service
AS C366	Essential Ratings and Characteristics of Semiconductor Devices and General Principles of Measuring Methods Part 0—General and Terminology Part 1—Essential Ratings and Characteristics Part 2—General Principles of Measuring Methods
AS C367	Letter Symbols for Semiconductor Devices and Integrated Microcircuits

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