

Förderverein für Elektrotechnische Normung (FEN) e. V.
Cenelec Electronic Components Committee

CECC

Système Harmonisé d'Assurance de la Qualité
des Composants Electroniques

SPECIFICATION PARTICULIERE:

VARISTANCES POUR LIMITATION DES
SURTENSIONS TRANSITOIRES

Harmonized System of Quality Assessment for
Electronic Components

DETAIL SPECIFICATION:

SURGE SUPPRESSION VARISTORS

Harmonisiertes Gütebestätigungssystem für
Bauelemente der Elektronik

BAUARTSPEZIFIKATION:

VARISTOREN FÜR DEN
ÜBERSpannungSSCHUTZ



1

Edition
Issue
Ausgabe

CECC 42 201-802

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Documents

Document Sharing Hub

Information about the System may be obtained from:



FEN e.V. Secretariat
and
CECC General Secretariat
Gartenstraße 179
D-6000 Frankfurt am Main 70
Telephone: Int. + 49 69 63 91 71
Telex: 4032 175 cecc d
Telefax: Int. + 49 69 63 94 27

or from the National Authorized Institutions
of the participating countries listed
who can supply copies of:

- 1 The Internal Regulations of the FEN e.V.
- 2 CECC Specifications of the FEN and National Specifications for the System
- 3 CECC 00 200: Qualified Products List (QPL)
- 4 CECC 00 300: CECC Publications and their related national documents

Austria

Österreichischer Verband
für Elektrotechnik
Eschenbachgasse 9
A-1010 Vienna

Belgium

Comité Electrotechnique Belge
Galerie Ravenstein 3 (Boite 11)
B-1000 Brussels

Denmark

Dansk Elektroteknisk Komite
Strandgade 36
DK-1401 Copenhagen K

Finland

Finnish Electrotechnical
Standards Association
P.O. Box 134
SF-00211 Helsinki 21

France

Union technique de l'Electricité
Participation française au CECC
F-92052 Paris la Défense Cedex 64

Germany

Deutsche Elektrotechnische
Kommission im DIN und VDE
Stresemannallee 15
D-6000 Frankfurt/Main 70

Ireland

EOLAS - The Irish Science and
Technology Agency
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IRL-DUBLIN 9

Italy

Comitato Elettrotecnico Italiano
Viale Monza 259
I-20126 Milan

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Nederlands Elektrotechnisch Comité
Kalfjeslaan 2
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Norsk Elektroteknisk Komite
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Spain

Asociación Electrotécnica y Electrónica Española (AEE)
Comité Español del CECC
Avda. de Brasil, 7
E-28020 Madrid

Sweden

Svenska Elektriska Kommissionen
Box 1284
S-16428 Kista - Stockholm

Switzerland

Schweizerischer Elektrotechnischer
Verein (SEV)
Postfach
CH-8008 Zürich

United Kingdom

British Electrotechnical Committee
British Standards Institution
2 Park Street
GB-London W1A 2BS

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 specification should be read in conjunction with the current regulations for the CECC System.

At the date of printing of this specification, the member countries of the CECC are Austria, Belgium, Denmark, Finland, France, Germany, Ireland, Italy, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom, and copies of it can be obtained from the addresses shown on the blue fly sheet.

PREFACE

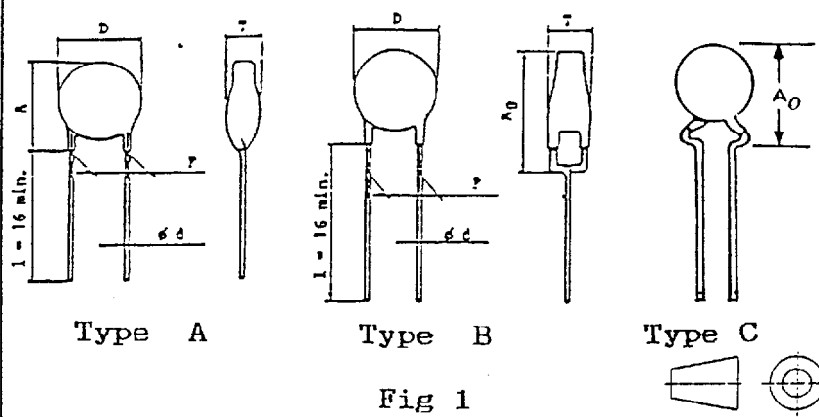
This specification was prepared by CECC WG 4D, Varistors. It is based, wherever possible, on the Publications of the International Electrotechnical Commission.

The text of this detail specification was circulated to the members of CECC WG 4D and was approved for publication under the accelerated procedure for the acceptance of detail specifications in accordance with Decision 10 of the minutes of the CECC CD in document CECC(Secretariat)1838.

Secretariat Note:

This detail specification was originally drafted by members of CECC WG 4D and discussed as documents CECC/WG4D(Rapaille-London)2, CECC/WG4D(Rapaille-Dublin)1 and draft detail specification CECC 42 201-802 Issue 1 at its meetings in Nuremburg, Dublin and Brussels with the decision to publish an agreed amended version without voting (Minute 8 of WG4D(Secretariat)22) refers).

To allow early publication, this detail specification is issued initially in English only. Corresponding versions in French and German will follow on request of ONHs.

Specification available from :	CECC 42 201-802 
ELECTRONIC COMPONENT OF ASSESSED QUALITY IN ACCORDANCE WITH : CECC 42 000 (1st. ed./1978) CECC 42 200 (1st. ed./1986) CECC 42 201 (1st. ed./1986)	1989
Outline and dimensions : All dimensions in mm  Type A Type B Type C Fig 1	SURGE SUPPRESSION VARISTORS Construction Zinc Oxide - insulated with uni- directional leads ASSESSMENT LEVEL 'S'

NOTES

- 1 - Other shapes are permitted within the dimensions given.
- 2 - The un-dimensioned details do not affect the performance of the device.
- 3 - The terminations are suitable for soldering.
- 4 - The terminations are suitable for printed wiring applications.
- 5 - The terminations are rigid.

1 RATINGS AND CHARACTERISTICS (at 25°C)

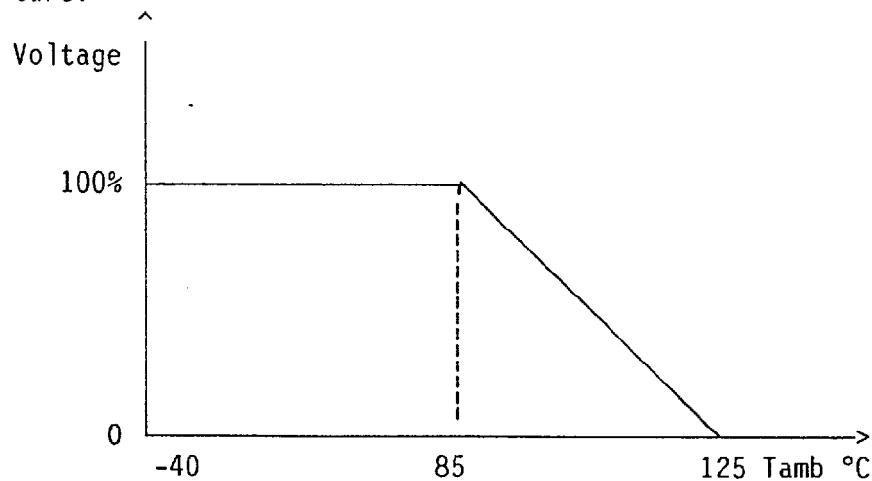
Supply voltage (where applicable)	: see table 1
Maximum continuous a.c. voltage	: see table 1
Maximum continuous d.c. voltage	: see table 1

Information about manufacturers who have components qualified to this detail specification is available in the current CECC 00 200 : Qualified Products List.

Class current	: see table 1
Voltage at class current (protection level)	: see table 1
Energy surge rating	: see table 1
Maximum peak current	: see table 1
Reference current	: see table 1
Voltage at reference current (tol. $\pm 10\%$)	: see table 1
Capacitance	: see table 1
Isolation voltage	: 2500 V
Temperature coefficient of voltage (at reference current)	: $-(0,09\% \text{ K}^{-1})$ max.
Climatic category	: 40/085/56
Dimensions of D	: see table 1
Dimensions of T	: see table 1
Dimensions of A	: $A_{\text{max}} = D_{\text{max}} + 3$
Dimensions of A_0	: $A_{0\text{max}} = D_{\text{max}} + 7$
Dimensions of F : - for style 2 and 3	: $F = 5 \pm 1$
- for style 4, 5 and 6	: $F = 7,5 \pm 1$
Dimensions of d : - for style 2 and 3	: $\phi d = 0,6 \pm 0,06$
- for style 4, 5 and 6	: $\phi d = 0,8 \pm 0,08$

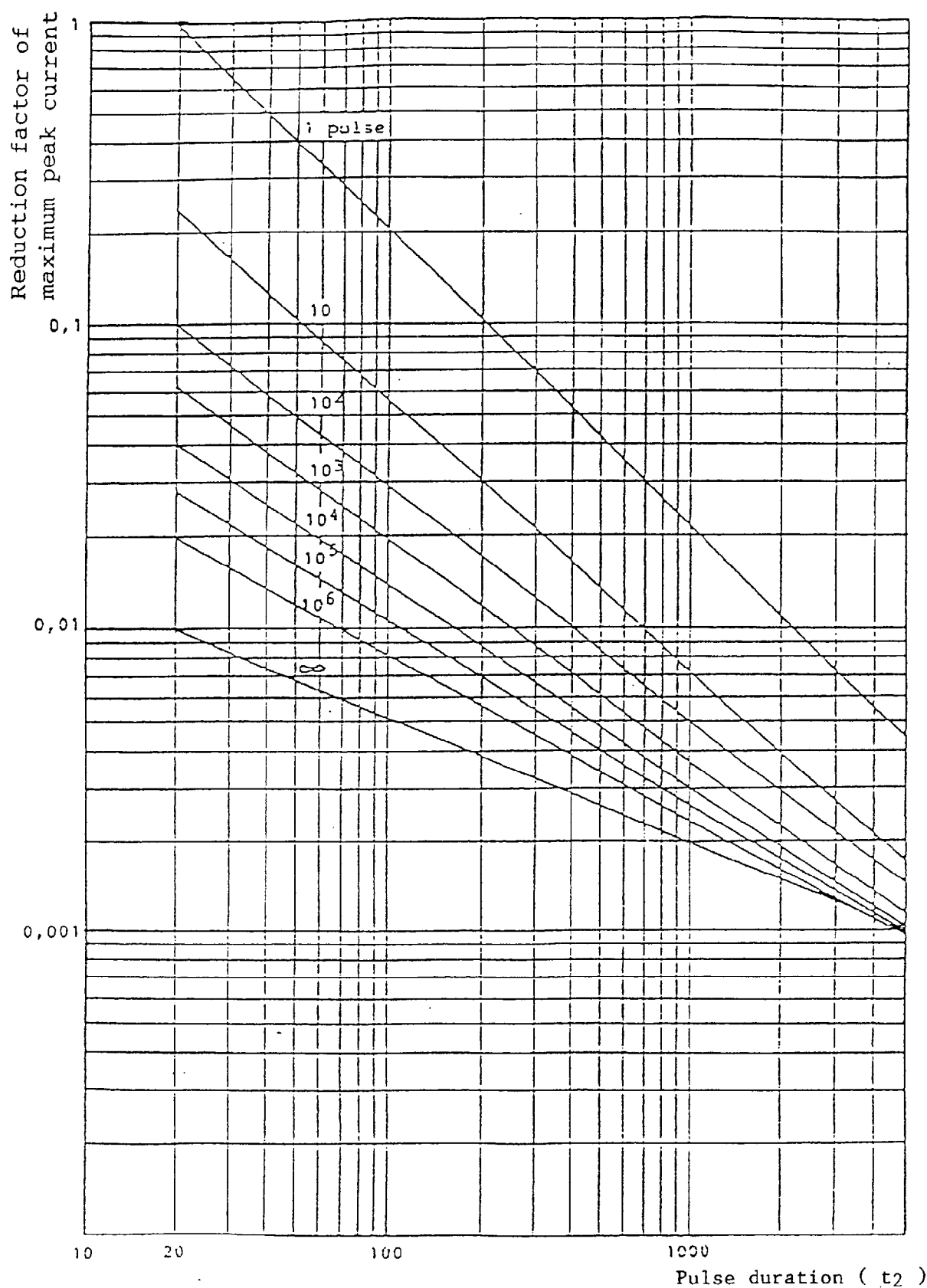
1.1 Derating curve

- 1.1.1 - Maximum continuous a.c. or d.c. voltage with temperature.



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1.1.2 - Reduction factor of maximum peak current for various numbers of pulses versus pulse duration.



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