

**BS EN 62374-1:2010**  
*Incorporating corrigendum April 2011*



BSI Standards Publication

# Semiconductor devices

Part 1: Time-dependent dielectric breakdown  
(TDDB) test for inter-metal layers

NO COPYING WITHOUT BSI PERMISSION EXCEPT AS PERMITTED BY COPYRIGHT LAW

*raising standards worldwide™*



**National foreword**

This British Standard is the UK implementation of EN 62374-1:2010, incorporating corrigendum April 2011. It is identical to IEC 62374-1:2010.

The UK participation in its preparation was entrusted to Technical Committee EPL/47, Semiconductors.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

© BSI 2011

ISBN 978 0 580 75206 3

ICS 31.080.01

**Compliance with a British Standard cannot confer immunity from legal obligations.**

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 December 2010.

**Amendments/corrigenda issued since publication**

<b>Date</b>	<b>Text affected</b>
30 June 2011	Implementation of CENELEC corrigendum April 2011: supersession details deleted

English version

**Semiconductor devices -  
Part 1: Time-dependent dielectric breakdown (TDDB) test for inter-metal  
layers  
(IEC 62374-1:2010)**

Dispositifs à semiconducteurs -  
Partie 1: Essai de rupture diélectrique en  
fonction du temps (TDDB) pour les  
couches intermétalliques  
(CEI 62374-1:2010)

Halbleiterbauelemente -  
Teil 1: Prüfung auf zeitabhängigen  
dielektrischen Durchbruch (TDDB) bei  
Isolationsschichten zwischen metallischen  
Leiterbahnen  
(IEC 62374-1:2010)

This European Standard was approved by CENELEC on 2010-11-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

**CENELEC**

European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**Management Centre: Avenue Marnix 17, B - 1000 Brussels**