

CONFIRMED
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Electronic parts of assessed quality —

Silicon avalanche rectifier diode

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 7 and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

Amendments issued since publication

Amd. No.	Date	Comments

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1. Specification CV7476 Issue 1A dated 10 June 1964 with its existing amendments which are reproduced below is hereby adopted as BS 9300 C476.

2. Devices inspected, released and supplied to this specification shall be marked CV7476 and, where applicable with the letters KB.

3. The references to "Military specification", "Commercial equivalents", "Reliability assurance provisions" or requirements and "Preparation for delivery" shall be disregarded.

4. In the Groups A, B and C inspection tables the references in the K1007/NATO Ref column shall be superseded by the appropriate reference given in BS 9300 Appendix C (Table 1 to Table 5 inclusive).

5. Additional requirements not covered by BS 9300 Appendix C are:

Page 2. NATO Stock Number.

Delete "5960" and substitute "5961".

Page 3. (dated 7/2/68). Group A, Subgroup 1.

Visual and mechanical inspection. Under "K1007 Ref" delete "S.1" and substitute "5.1".

Group A, Subgroup 2.

Avalanche voltage. Add "BS 9300, method 1511".

Reverse surge current. Delete this test. Delete also the reference to "Post tests for reverse surge current" and the "Reverse current" test immediately beneath this heading but do not delete the "Forward Voltage" test.

Page 4. Group B, Subgroup 7.

High temperature life. Delete this test.

Page 5. Group B.

Under heading "Examination or test", delete "Subgroup 8" and substitute "Subgroup 7(a)".

Insert new subgroup and test as follows:

Examination or test	Ref.	Specific conditions	AQL %	I.L.
Subgroup 7(b) Non-repetitive peak reverse power, P_{RSM}	BS 9300: Method 1510	$P_{RSM} = 750 \text{ W}$, $t_{av} = 100 \mu\text{S}$ $T_{amb} = 25^\circ\text{C}$ A sinusoidal pulse with a base width of $100 \mu\text{s}$ may be used	0.65	II

Page 5. Group B.

Post-test end-points. Delete reference to subgroups "2, 3, 7 and 8" and substitute "2, 3 and 7(a)".

Insert new "Post-test end-point" as follows:

Examination or test	K1007 Ref.	Specific conditions	Symbol	Limit max.
Post-test end-point for Subgroup 7(b) Reverse Current (1)	8A.2.2	$V_R = 1\,000 \text{ V}$	I_R	$20 \mu\text{A}$

Page 5. Notes.

Delete Note 1.

6. Published amendments (consolidated).

Page 1. Mechanical dimensions and outline.

Add "Polarity. The flange is equivalent to the anode of a thermionic rectifier".

Absolute maximum ratings.

In the table, under " T_{stg} max.", delete "+ 175" and substitute "+ 150".

In Note A, delete "+ 175 °C" and substitute "+ 150 °C".

Page 3. (dated 7/2/69). Group A, Subgroup 2.

Avalanche voltage. Under "Limits. Max.", delete "1 750" and substitute "2 000".

Page 5. Notes.

Delete Note 2.

Page 7. Avalanche voltage test circuit.

Delete Figure 2.