

Detail specification for

**General purpose
silicon signal
diodes —
150 mA, 150 V,
hermetically sealed,
glass encapsulation —
General application
category Q**

UDC 621.382.2/.3

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 8 and a back cover.

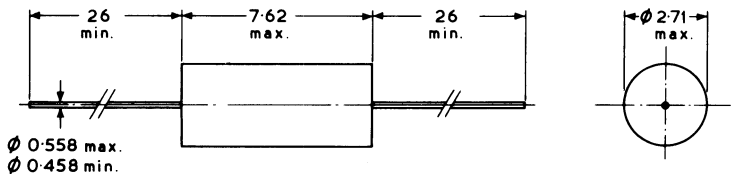
This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

Amendments issued since publication

Amd. No.	Date	Comments

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ELECTRONIC PARTS OF ASSESSED QUALITY: DETAIL SPECIFICATION	
Outline and dimensions (Third angle projection)  All dimensions are in millimetres For detail dimensions see BS 3934 SO-6	GENERAL PURPOSE SIGNAL DIODE
	GENERAL APPLICATION CATEGORY Q
	MANUFACTURER'S TYPE NUMBER AS SHOWN IN QPL IN BS 9002 OR CV 8790
	150 mA 150 V SILICON DIODE HERMETICALLY SEALED GLASS ENCAPSULATION

1 Limiting conditions of use (not for inspection purposes)

Absolute maximum values

Voltage rating

V_R	Continuous reverse voltage over the specified operating temperature range	150 V
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Current rating

I_F	Continuous forward current	150 mA
	For derating curve of I_F against T_{amb} see Figure 1	

Thermal ratings

T_{amb}	Operating temperatures	– 55 °C to 100 °C
T_{stg}	Storage temperatures	– 55 °C to 100 °C

2 Characteristics (not for inspection purposes)

V_{F1}	Forward voltage at $T_{amb} = 25\text{ °C}$	$I_F = 100\text{ mA}$	1.2 V max.
V_{F2}	Forward voltage at $T_{amb} = 25\text{ °C}$	$I_F = 15\text{ mA}$	0.65 V min.
V_{F3}	Forward voltage at $T_{amb} = 25\text{ °C}$	$I_F = 0.1\text{ mA}$	0.75 V max.
I_{R1}	Reverse current at $T_{amb} = 25\text{ °C}$	$V_R = 150\text{ V}$	0.1 μA max.
I_{R3}	Reverse current at $T_{amb} = 100\text{ °C}$	$V_R = 150\text{ V}$	5 μA max.
C	Capacitance at $T_{amb} = 25\text{ °C}$	$V_R = 1\text{ V}$	10 pF max.

3 Marking

- 1) Each diode shall bear the following markings:
 - a) Cathode terminal shall be identified.
 - b) The manufacturer's type designation.
- 2) Each package containing one or more of these diodes shall bear marking b) above and in addition:
 - c) The factory identification code (from BS 9002).
 - d) The date code.
 - e) The number of this detail specification, i.e. BS 9301 N002, Issue 1.