

STABILISING TUBE

I50C2

150V gas-filled stabiliser with a current range of 5 to 30mA.

This data should be read in conjunction with the GENERAL OPERATIONAL RECOMMENDATIONS — VOLTAGE STABILISER AND REFERENCE TUBES which precede this section of the handbook.

LIMITING VALUES (absolute ratings)

Minimum voltage necessary for ignition		
In some ambient light	185	V
In complete darkness	225	V
Burning current		
Maximum	30	mA
Minimum	5.0	mA
Maximum starting current	75	mA
Maximum negative anode voltage	125	V
Ambient temperature limits during operation	-55 to +90	°C

CHARACTERISTICS (at room temperature)

Initial values

Maintaining voltage (all tubes)		
Maximum (at $I_a = 30\text{mA}$)	165	V
Minimum (at $I_a = 5.0\text{mA}$)	142	V
Difference between maintaining voltages at $I_a = 30\text{mA}$ and $I_a = 5.0\text{mA}$ (individual tube)		
Maximum	6	V
Typical	4	V

*Life performance

Percentage variation of maintaining voltage at $I_a = 30\text{mA}$ during 1000 hrs. life		
Maximum	± 3	%
Typical	± 1	%
Typical maximum difference between maintaining voltages at $I_a = 30\text{mA}$ and $I_a = 5.0\text{mA}$ (individual tube)	5	V

*These figures apply when the tube is operated continually at 30mA at room temperature.

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THIS DATA SHEET IS A SUMMARY OF THE DATA GIVEN IN THE GENERAL DATA SHEET FOR THE I50C2 STABILISING TUBE WHICH ARE GIVEN IN THE HANDBOOK.

CHARACTERISTICS (at room temperature)

V	150	to 250	Operating voltage
V	125	to 150	Maximum voltage
mA	10	to 20	Operating current
mA	20	to 30	Maximum current
mA	25	to 35	Maximum starting current
V	125	to 150	Maximum negative anode voltage
°C	-25 to +50		Operating temperature range

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