Page 1 (No. of pages:- 4) MINISTRY OF SUPPLY (S.R.D.E.)		VAI	WE ELECTRONIC	CV 2 257		
Specification MOS/CV.2257 Issue Dated: 3.11.52 To be read in conjunction with K.1001 excluding clause 5.2	SECUR Specification Unclassified	ITY Valve Unclassified				
TYPE OF VALVE: Gas-filled Tric	Gas-filled Triode Cold Glass unmetallised			MARKING See K.1001/4		
RAT INGS Control Gap Breakdown Voltage (V)	75	Note	DIMENSION CONNECT			
Control Gap Maintaining Voltage (V) Main Gap Breakdown Voltage (V) Main Gap Maintaining Voltage (V)	55 215 77	A	See Drawing o	on page 4		
Transfer Current (μA) Max. Mean Cathode Current (mA) Operating Time (μ Sec) Extinction Time (μ Sec)	5 1 30 550	B				
Target Life 5000 hours integrated burning time at 1 mA maximum mean cathode current.						

NOTES

- A. Measured at 1 mA.
- B. Measured with 175V. between Anode and Cathode.
- C. Time from 1 mA. Cathode Current.

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TESTS

To be performed in addition to those applicable in K.1001.

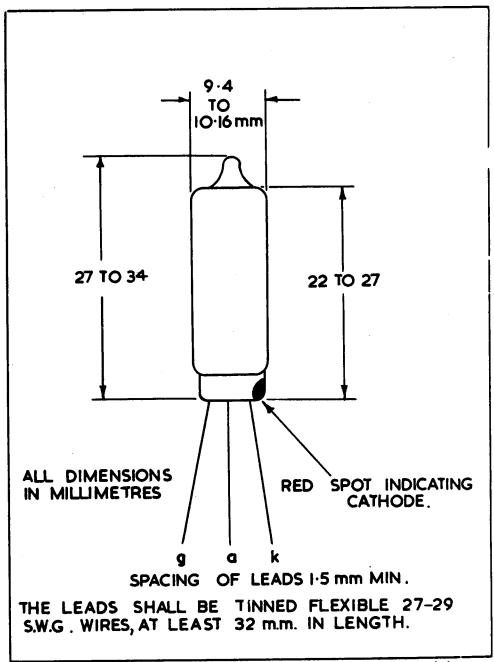
	Test Conditions	Test	Limits		No.	Note
		1000	Min	Max	Tested	
a.	A DC voltage of 60 volts shall be applied between trigger and cathode with the trigger positive and a supply voltage of 175 volts DC shall be connected to the anode through a suitable limiting resistance. The tube shall not strike. The trigger voltage shall then be increased instantaneously to 85 volts and the tube shall strike.	Control Gap Striking Voltage D.C. (V)	-	85	100%	
Ъ	A DC voltage of 190 volts shall be applied instantaneously between anode and cathode with the anode positive and with the trigger connected to cathode. The tube shall not strike.	Main Gap Breakdown Voltage D.C. (V)	190		100%	
	With a supply voltage of 175 volts DC connected to the anode through a suitable limiting resistance the trigger voltage is increased until breakdown in the main gap cocurs. The main gap current shall then be adjusted to 1 mA.	Main Gap Maintain- ing Voltage (V)	70	85	100%	

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To be performed in addition to those applicable in K.1001.

	Test Conditions		Limits			
		Test	Min		No. Tested	Note
đ	A DC supply voltage of 175 volts is connected to the anode through a suitable limiting resistance. A DC voltage connected to the trigger through a resistance of 1 meg. shall be increased until breakdown and the transfer to the main gap occurs. The anode supply shall then be disconnected and the current in the trigger circuit measured.	Transfer Current (µA)	•	20	100%	
	A DC supply voltage of 175 volts shall be connected to the anode through a suitable limiting resistance, a single square top pulse having a height of 115 volts positive and a length of 50 microseconds (plus a rise time of 5 micro-seconds) shall be applied to the trigger through a resistance of 1 meg. The tube shall strike.	Opera- ting Time (μ Sec)	•	50	6/week	
Î	With the trigger connected to the cathode through a resis- tance of 1 meg. the main gap shall be struck and the main gap current adjusted to 1 mA. A single square top voltage pulse having a height of minus 50 volts and a length of 700 micro-seconds shall then be applied to the anode. The tube shall extinguish.	Extinc- tion time (µ Sec)	-	700	6/week	

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