

Specification MOSA/CV261 Issue 5; Dated 3.12.52. To be read in conjunction with K1001 ignoring clauses 5.2, 5.8.	<u>SECURITY</u>	
	<u>Specification</u> UNCLASSIFIED	<u>Valve</u> UNCLASSIFIED

→ Indicates a change

<u>TYPE OF VALVE</u> - Miniature half wave high voltage rectifier.		<u>MARKING</u> See K1001/4	
<u>CATHODE</u> - Indirectly heated		<u>BASE</u> B7C	
<u>ENVELOPE</u> - Glass unmetallised		<u>CONNECTIONS</u>	
<u>RATING</u>	Note	<u>Pin</u>	<u>Electrode</u>
Heater Voltage (V)	4.0	1	Cathode
Heater Current (A)	0.5	2	Cathode
Max. applied RMS Voltage (KV)	5.0 A	3	Heater
Max. working P.I.V. (KV)	12.5 A	4	Heater
Max. no load P.I.V. (KV)	14.0 A	5	Cathode
Max. mean D.C. rectified current (mA)	5.0 A	6	Cathode
Max. peak anode current (mA)	40 A	7	Cathode
Max. reservoir condenser (MF)	0.3 A	Top	Anode
Min. limiting resistance introduced externally (ohms)	50,000	Cap	
H.F. switching delay period (secs) for full ratings. (secs)	30 C	<u>TOP CAP</u> See K.1001/AI/D5.2	
Max. heater - cathode voltage (V)	10 A	<u>DIMENSIONS</u> See K.1001/AI/D4	
		Dimension	Min. Max.
		A mm	- 60.00
		B mm	- 19.05
		L mm	- 53.00
		F mm	34.04 42.16
<u>NOTES</u>			
A. Absolute maximum values.			
B. Ratings apply to operation with condenser input filter and a supply frequency of 50 c.p.s.			
C. The valve shall withstand direct switching for reduced ratings i.e. 3.5 KV applied voltage at 1.5 mA.			

TESTS

To be carried out in addition to those applicable in K.1001.

Clause	Test Conditions		Test	Limits		No. Tested	Note
	Vh	Va		Min.	Max.		
a	4.0	-	Ih (A)	0.45	0.55	100% or S	
b	4.0	95v D.C. max.	Ia (mA)	15.0	-	100%	1
c	Input voltage 5.0kv. RMS Frequency 50 c.p.s. D.C. Load current 5 mA. (nominal) Reservoir condenser 0.25 μ F. Effective resistance introduced externally 50,000 ohms.		<u>Load Test</u> Run for 1 minute. Reject for softness and persistent flashover.			100%	

NOTES

1. Applied only for sufficient time to obtain a steady reading (approx. 2 secs).

DATA SHEET

Valve Electronic Type **CV 261**

RATINGS AND OPERATING CONDITIONS.

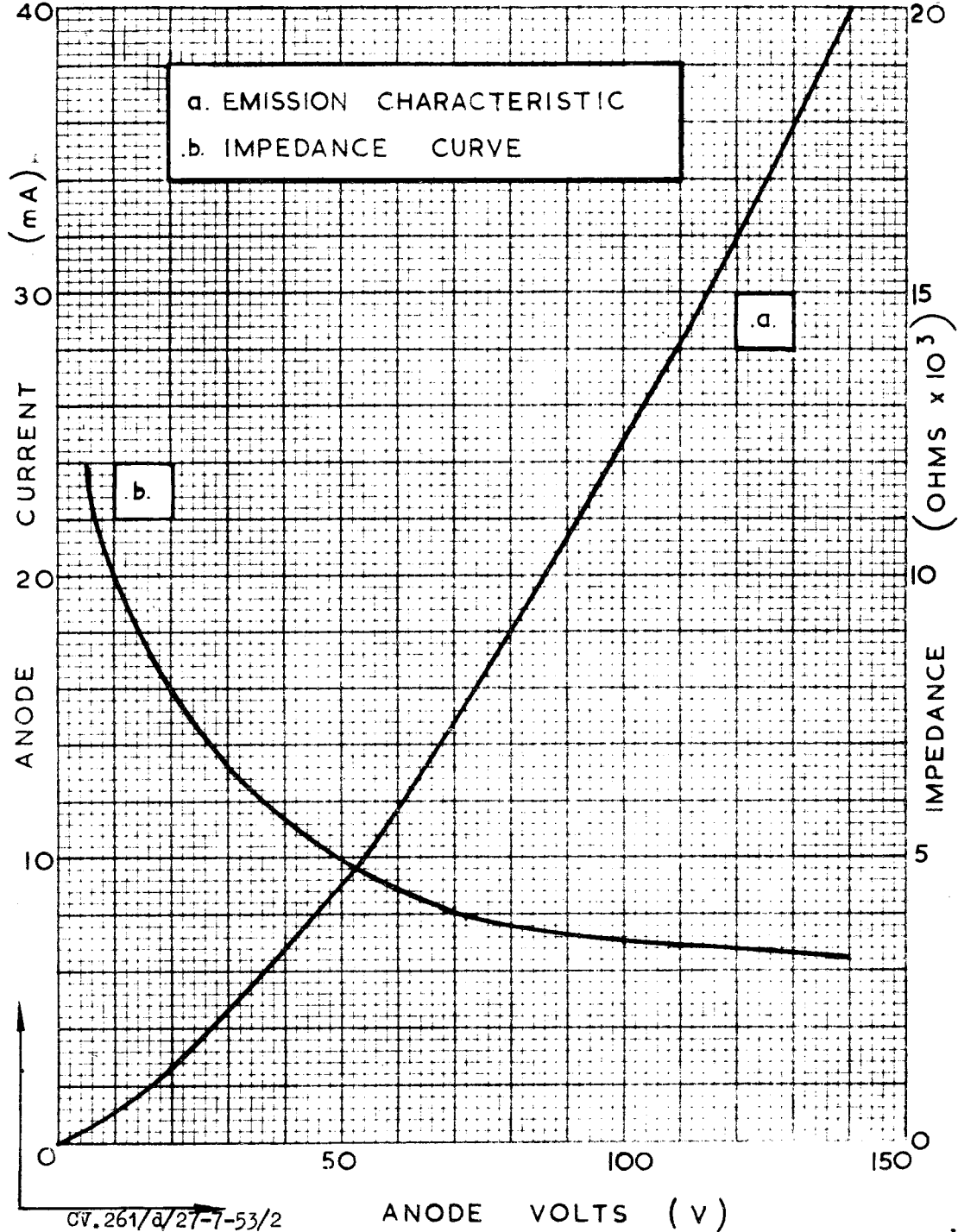
Max. No-load P.I.V.	14.0	kV
" Working P.I.V.	12.5	kV
" Applied Anode Voltage (R.M.S.)	5.0	kV
" Mean D.C. Anode Current	5.0	mA
" Peak Anode Current	40.0	mA
" Heater/Cathode voltage	10.0	Volts
Min. external circuit limiting impedance	50,000	Ohms
Recommended value of reservoir condenser	0.25	μ F
H.T. switching delay time (see Note 2)	30.0	secs

Mounting Position - Vertical, base downwards.

Notes

- (1) The above ratings apply for operation at 50 c/s with a condenser input filter.
- (2) When the valve is used under normal conditions, the heater must be switched on for at least 30secs before the application of the Anode Voltage. Simultaneous switching of L.T. and H.T. may be used however when the valve is used at a rating of 3.5 kV/1.5 mA or less.
- (3) The external circuit impedance is the effective transformer impedance and must be increased, if necessary, to the minimum value by the addition of a resistance in the anode circuit.

CV 261	CHARACTERISTIC CURVES OF CV261 VALVE	$V_h = 4V$
--------	--------------------------------------	------------



CV.261/a/27-7-53/2