MINISTRY OF SUPPLY D. L. R. D. (A)/R. A. E.

VALVE ELECTRONIC

CV257

Specification MOSA/CV257
ISSUE 5 Dated 14.5.54.
To be read in conjunction with K1001
ignoring clause: - 5.3.

SECURITY

Specification
UNCLASSIFIED
UNCLASSIFIED

Indicates a change

TYPE OF VALVE - Disc seal triode CATHODE - Indirectly heate ENVELOPE - Copper-glass PROTOTYPE - E.1457	<u>Marking</u> See K1001/4		
Heater Voltage (V) Heater Current (A) Max. D.C. Anode Voltage (V) Max. Pulse Anode Voltage (kV) Max. Anode Dissipation (W) Min. Peak Emission (A) Amplification Factor Mutual Conductance (mA/V) Efficiency (1) at 500 Mc/s with 11db gain (2) at 1000 Mc/s with 8 db gain CAPACITANCES (pF)	6.3 4.0 600 4.0 75 15 22 20	Note A B B	DIMENSIONS AND CONNECTIONS See drawing on page 3.
Cag Cog Cac	6.5 10.5 0.3		

NOTES

- A. For this dissipation at ambient temperatures up to 30°C. forced air cooling shall be provided by not less than 5 cu.ft. of air per. min. with a pressure drop across the valve of the order of 2 inches of water.
- B. For $Va = 500V_{\bullet}$, $Ia = 100 \text{ mA}_{\bullet}$

CV257

To be performed in addition to those applicable in K1001.

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	Test Conditions				Test		Limits		No.	CONSTINUENCE
	Vſ	Vg	Va	Ia (mA)			Min.	Max.	Tested	Notes
a	6.3	-700	4.0 kV	-	for a pe	ons to be a priod of or flashing.	100%	1		
Ъ	6.3	0	0	0	If	(A)	3.6	4.4	100%	MEDITAL FOR THE BLOWN SET OF THE PROPERTY CO.
С	6.3	Adjust	500	100	Vg	(V)	-10	-15	100%	de ant not bette august en en en en en dibbons
d	6.3	Adjust	500	100	Reverse	Ig1 (MA)	495	10	100%	CONTRACTOR SERVICE SERVICE CONTRACTOR CONTRA
•	6.3	Adjust	400	100	Vg chang value of in test	tained	3.6	5.5	100%	мето подаласуры подворя посторы
f	6.3	Adjust Peak gr	500 id swing	100 17. max.	gur	(mA/V)	15	-	100%	angrie Chinach — ecolo China (1944)
g	6.3	Adjust	500	10	Vg	(A)	-	-30	100%	
h	6.3	Peak ap Tp = 2u	nd grid s plied vol- sec., p.r.	Peak Emi	ssion (A)	15	60	100%	Marie Walker (Marie Walker)	
j	Measurement to be made at frequency of 1.0 Mc/s.				Capacits Cag Cog Cac	nces(pF)	5.0 7.0	8.0 14·0 0.5	6 per week	

NOTES

- 1. Test 'a' forms part of the processing of the valve, and having been met during manufacture, shall not be repeated for acceptance testing. For this hot flash test applied voltages shall be supplied through a circuit as in Fig. 1.
- 2. For the above tests forced air cooling as detailed in Note A on page 1 shall be used.

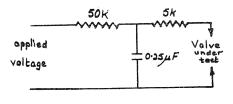


Fig.1.

