

MINISTRY OF SUPPLY - S.R.D.E.

Specification MOS/CV2347 Issue 1 Dated 18.1.55. To be read in conjunction with K.1001	<u>SECURITY</u> Specification UNCLASSIFIED	Valve UNCLASSIFIED
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→ Indicates a change

TYPE OF VALVE - Beam Power Amplifier		<u>MARKING</u>			
CATHODE	- Indirectly heated	See K.1001/4.			
ENVELOPE	- Glass - unmetallised	<u>BASE</u>			
PROTOTYPE	- 5B/258 M.	B8G			
<u>RATING</u>		<u>CONNECTIONS</u>			
Note					
Heater Voltage	(V) 19.0	A	Pin		
Heater Current	(A) 0.3		1 Heater		
Max. Anode Voltage	(V) 600		2 Cathode & Beam Plates		
Max. Anode Voltage (Ia = 0)	(V) 750		3 Grid 2		
Max. Screen Voltage	(V) 300		4 Cathode & Beam Plates		
Max. Anode Current	(mA) 120		5 Grid 1		
Max. Anode Dissipation	(W) 25		6 Grid 1		
Max. Screen Dissipation	(W) 4.5		7 Cathode & Beam Plates		
Mutual Conductance	(mA/V)	B	8 Heater		
Inner μ	9	B	T.C. Anode		
Max. D.C. Control Grid Voltage	(V) -200	<u>TOP GAP</u>			
Max. R.F. Voltage between Control and Screen Grids	(V) 1000	See K.1001/A1/D5.2.			
Max. Frequency for above ratings	(Mc/s) 60	<u>DIMENSIONS</u>			
See K.1001/A1/D7.					
<u>CAPACITANCES (pF)</u>		<u>Dimensions</u>			
Cag ₁	0.1	A mm	-		
Cge	13	B mm	-		
Cae	7	L mm	-		
		105.6			
		30.15			
		92.1			
<u>NOTES</u>					
A. Absolute Maximum Values.					
B. Measured at Va = 300V; Vg2 = 250V; Ia = 72 mA.					

CV2347

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

Test Conditions					Test	Limits		No. Tested	Note	
						Min	Max.			
	See K.1001/A.111					<u>CAPACITANCES (pF)</u>				
a	Links to H.P.	Links to L.P.	Links to E.		(i) C_{ag_1}	-	0.2	6 per week		
	TC1	5,6	1,2,3,4,7, 8,9,10	TC2	(ii) C_{ae}	-	8.0			
	TC1	1,2,3,4, 7,8,	5,6,9,10,	TC2	(iii) C_{ge}	-	14.0			
	V _h	V _a	V _{g2}	V _{g1}	I _a (mA)					
b	19.0	-	-	-	-	I _h (A)	0.27	0.33	100% or S	
c	19.0	500	300	Adjust	50	Reverse I _{g1} (Note 1) (mA)	-	5.0	100%	
d	19.0	500	300	-	28	V _{g1} (V)	-25	-40	100%	
e	19.0	500	300	-	28	I _{g2} (mA)	-	2.5	100%	
f	19.0	500	300	-75	-	I _a cut-off (mA)	-	1.0	100%	
g	19.0	300	300	300	-	I _e (note 2) (A)	3.5	-	100%	

NOTES

- After 2 minutes the reverse current to the control grid shall not exceed the value specified and shall not be rising.
- This test shall be carried out by the application of a $2\mu\text{sec.}$ pulse of 300 volts peak amplitude and 50 c/s repetition frequency between the cathode and all other electrodes strapped together.

(contd.) If the control grid current is rising after a two-minute test, the test may be continued up to eight minutes, after which time the control grid shall not exceed the specified maximum, and shall not be rising.

ELECTRONIC VALVE SPECIFICATIONS

SPECIFICATIONS MOS/CV.2347
ISSUE 1 DATED 18.1.55

AMENDMENT NO. 1

Page 2 Note 1

Add to existing wording :-

"If the control grid current is rising after a two-minute test, the test may be continued up to eight minutes, after which time the control grid current shall not exceed the specified maximum, and shall not be rising".

August, 1960
N.33643

T.V.C. for S.R.D.E.

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