

Specification No. MOS/CV1349/4 Dated : 25.9.45. To be read in conjunction with K1001 ignoring clauses 5.2; 5.8.	<u>SECURITY</u>	
	<u>Specification</u> Restricted	<u>Valve</u> Restricted

→ Indicates a change

<u>TYPE OF VALVE</u> : Half-wave Mercury Rectifier		<u>MARKING</u>										
<u>CATHODE</u> : Directly heated		As in K1001/4										
<u>ENVELOPE</u> : Glass - unmetallised												
<u>COMMERCIAL PROTOTYPE</u> : RG5 - 500												
<u>RATING</u>		<u>BASE</u>										
	Note	Goliath-Edison Screw										
Filament Voltage	5.0	Pin	Electrode									
Filament Current (amps)	11.0	T.C.	Anode									
Max. Anode Voltage R.M.S.	4200	<u>DIMENSIONS</u>										
Max. Peak Inverse Voltage	11000											
Peak Anode Current (amps)	2.5	See K1001/A1/D1										
Max. D.C. Output Current (mA)	500	<table border="1" style="width: 100%;"> <tr> <th style="text-align: center;">Dimensions</th> <th style="text-align: center;">Min.</th> <th style="text-align: center;">Max.</th> </tr> <tr> <td style="text-align: center;">A mm</td> <td style="text-align: center;">220</td> <td style="text-align: center;">300</td> </tr> <tr> <td style="text-align: center;">B mm</td> <td style="text-align: center;">-</td> <td style="text-align: center;">91</td> </tr> </table>		Dimensions	Min.	Max.	A mm	220	300	B mm	-	91
Dimensions	Min.			Max.								
A mm	220	300										
B mm	-	91										
Max. Temp. of surrounding air °C	50											
Min. Temp. of surrounding air °C	10											
Max. frequency of supply (c/s)	150											
Max. Peak Anode Current (A)	2.5											
Min. Choke inductance at max. D.C. output current (H)	6											
(Ratings apply to choke input filter and 50 c.p.s. supply)												

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TESTS

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To be performed in addition to those applicable in K1001

	Test Conditions			Test	Limits		No. Tested
	V _F	V _a	I _a (mA)		Min.	Max.	
a	5.0	-	500	If (amps)	-	11.0	10%
b	5.0	Vary (Note 1)	500	Valves run for 10 mins. during which time there must be no indication of internal defect in the valve or variation of operation. The anode shall not appear red hot. There must be no bright spots on the cathode and no persistent flash over.			100%
c	5.0	As in clause b	500	Voltage drop. This test shall be carried out after clause b has been applied.	-	20	100%
d	5.0	12,000 negative	-	Inverse voltage. There must be no indication of arcing or flashing back	-	-	100%

NOTES

1. Anode voltage through a limiting resistance.
2. Heater voltage to be applied for 15 minutes before any of the above tests are carried out.