

Specification MOS(A)/CV2289 Issue 2 Dated 8. 4. 54. To be read in conjunction with K1001.	<u>SECURITY</u>	
	<u>Specification</u> UNCLASSIFIED	<u>Valve</u> UNCLASSIFIED

→ Indicates a change

TYPE OF VALVE - High Vacuum, Half-wave Rectifier CATHODE - Directly-heated ENVELOPE - Glass - Unmetallised PROTOTYPE - U37		<u>MARKING</u> See K1001/4	
<u>RATING</u>		<u>BASE</u> None	
		Note	
Filament Voltage (V) 1.4 Filament Current (A) 0.15 Max. Peak Inverse Voltage (kV) 15 Max. Peak Inverse Voltage with direct switching (kV) 10 Max. Mean Rectified Current (mA) 2 Max. Peak Anode Current (mA) 12			
		<u>CONNECTIONS</u>	
		Lead	Electrode
		Top Lead	Anode
		Bottom Leads	Filaments
<u>TYPICAL OPERATING DATA</u>		<u>DIMENSIONS</u>	
		See Drawing on Page 2	
		<u>MOUNTING POSITION</u> Any	
<u>CAPACITANCES (pF)</u>			
Ca-f	0.65		
<u>NOTES</u>			
A. Absolute maximum value. B. This rating applies to circuits where the anode voltage rises at approximately the same rate as the filament voltage, e.g. in fly-back and RF oscillator circuits. When used in power input circuits with full AC anode voltage applied on switching, the maximum peak inverse voltage is 10 kV. C. PRF = 20 kc/s; Tp = 5 μsecs.			

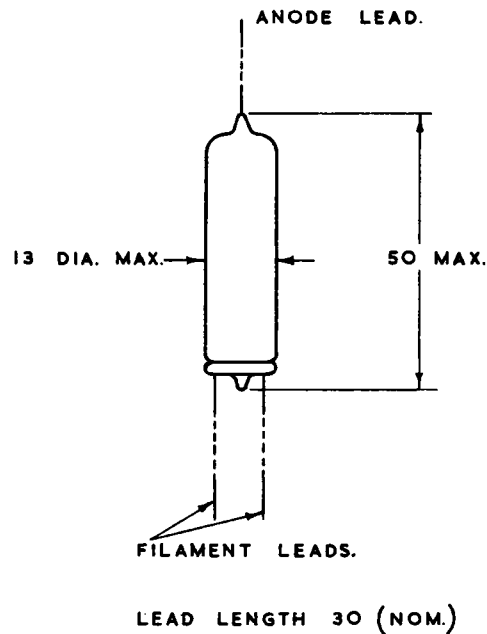
TESTS

To be performed in addition to those applicable in K1001

	Test Conditions		Test	Limits		No. Tested	Note
	V <sub>r</sub> (V)	V <sub>a</sub> (V)		Min.	Max.		
a	1.4	0	Filament Current (A)	0.13	0.17	100%	
b	1.4	85V DC max.	Anode Current (mA)	4	-	100%	
c	1.4	Input voltage = 5.3 kV RMS; Frequency = 50 cps; Output current = 100 $\mu$ A nominal; Reservoir condenser = 0.1 $\mu$ F; Effective external resistance = 100k.	<u>Load Test</u> Run for 1 minute and reject for persistent flashover.	-	-	100%	1

NOTE

1. An alternative Load Test may be performed at  $f = 100$  kc/s approx, using a reservoir condenser = 0.001  $\mu$ F. Other conditions as for Test (c).



ALL DIMENSIONS IN MM