

Specification MDS(A)/CV2289 Issue 2 Dated 8. 4. 54. To be read in conjunction with K1001.	<u>SECURITY</u>	
	<u>Specification</u>	<u>Valve</u>
	UNCLASSIFIED	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	
				<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</u> (pF)					
Ca-f				0.65	

NOTES

- 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; $T_p = 5 \mu\text{secs}$.

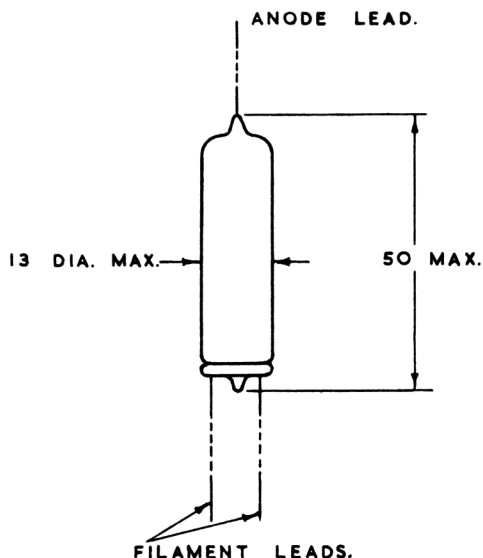
TESTS

To be performed in addition to those applicable in K1001

Test Conditions			Test	Limits		No. Tested	Note
				Min.	Max.		
	V _f (V)	V _a (V)					
→ 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 μ A nominal; Reservoir condenser = 0.1 μ 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 μ F. Other conditions as for Test (c).



LEAD LENGTH 30 (NOM.)

ALL DIMENSIONS IN MM