

Specification MOSA/CV.589 Issue 2 Dated 25.6.1953 To be read in conjunction with K.1001	<u>SECURITY</u> Specification Valve UNCLASSIFIED UNCLASSIFIED
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→ Indicates a change

TYPE OF VALVE - Double diode triode ENVELOPE - Glass, unmetallised CATHODE - Indirectly heated PROTOTYPE - 6Q7GT	<u>MARKING</u> See K.1001/4 Additional Marking 6Q7GT			
<u>RATINGS</u>	<u>BASE</u> I.O.			
	<u>CONNECTIONS</u>			
Heater Voltage (V) 6.3 Heater Current (A) 0.3 Max. Anode Voltage (V) 330 Anode Current (mA) 1.2 Mutual Conductance (mA/V) 1.2 Amplification Factor 70 Anode Impedance (kΩ) 58 Max. Diode Current (mA) 1.0	Note A A A A	Pin	Electrode	
		1 2 3 4 5 6 7 8 T.C.	No connection Heater Anode Diode 2 Diode 1 Pin omitted Heater Cathode Control Grid	
<u>CAPACITANCES (pF)</u> C _{ae} C _{ge} C _{ag}	5.0 2.2 1.6	<u>TOP CAP</u> See K.1001/AI/D5.2		
		<u>DIMENSIONS</u> See K.1001/AI/D1		
		Dimension	Min.	Max.
A mm.	78.0	84.3		
B mm.	-	33.5		
<u>NOTE</u> A. At V _a = 250, V _{g1} = -3.0.				

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

Test Conditions				Test	Limits		No. Tested	Note
					Min.	Max.		
a	Vh	Va	Vg	Ih (A)	0.275	0.325	100% or S	
	6.3	0	0					
b	6.3	<u>Triode Section</u>		Ia (mA)	0.4	2.0	100%	
		250	-3.0					
c	6.3	250	-3.0	gm (mA/V)	0.95	1.6	100%	
d	6.3	250	-3.0	μ	55.0	85.0	100%	
e	6.3	250	-3.0	Reverse Ig (μ A)	-	0.5	100%	
f	Vh	<u>Diode Section</u>		Id (mA)	0.8	-	100%	1
		Va						
	6.3	+10						

NOTE

1. This test to be applied to both diodes.