

ELECTRONIC TUBE REFERENCE

25DQ6A

Power - TV Horizontal Output (sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

BEAMPOWER

High-perveance beam-power pentode designed for efficient television horizontal-deflection amplifier circuits with controlled warm-up and high pulse ratings.

GENERAL CHARACTERISTICS

BASE DESIGNATION	6AM	BASE PINS	7
NOMINAL HEATER	25 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

6AM - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – Pin 1	–	–	NC · verified
PIN2 – Pin 2	–	H – Heater	CONNECTED · verified
PIN3 – Pin 3	–	–	NC · verified
PIN4 – Pin 4	A	G2 – Screen Grid	CONNECTED · verified
PIN5 – Pin 5	A	G1 – Control Grid	CONNECTED · verified
PIN7 – Pin 7	–	H – Heater	CONNECTED · verified
PIN8 – Pin 8	A	BP – Beam-Forming Plate	CONNECTED · verified
PIN8 – Pin 8	A	K – Cathode	CONNECTED · verified

TERMINAL	SECTION	ELEMENT	STATUS
CAP1 – Top cap	A	P – Plate (Anode)	CONNECTED · verified

SECTION RATINGS

SECTION1 Beam Power	
PLATE RESISTANCE	20000 Ω
TRANSCONDUCTANCE	0.0066 S
MAXIMUM PLATE VOLTAGE	700 V
MAXIMUM SCREEN VOLTAGE	200 V
MAXIMUM PLATE DISSIPATION	15 W
MAXIMUM SCREEN DISSIPATION	3 W
MAXIMUM CATHODE CURRENT	140 mA
<i>Horizontal-deflection beam power pentode; 6000 V positive pulse and 1375 V negative pulse ratings.</i>	

The 25DQ6A is a high-perveance beam power pentode designed for high-efficiency horizontal-deflection amplifier circuits in television receivers, with controlled heater warm-up and high pulse ratings.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 Tung Sol

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1961 TUNG SOL

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	25 V	Nominal
Heater current	300 mA	Nominal
Maximum peak positive pulse plate voltage	6000 V	HorizontalDeflection
Maximum peak negative pulse plate voltage	1375 V	HorizontalDeflection
Maximum peak cathode current	440 mA	HorizontalDeflection
Maximum grid 2 input	3 W	HorizontalDeflection
Plate voltage	250 V	ClassA
Screen voltage	150 V	ClassA
Grid 1 voltage	-22.5 V	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater warm-up time	11 s	ControlledWarmup
Plate resistance	20000 ohm	ClassA
Transconductance	6600 uS	ClassA
Plate current	75 mA	ClassA
Grid 2 current	2.4 mA	ClassA
Grid 1 cutoff voltage	-46 V	ClassA
Grid-2-to-grid-1 mu factor	4.1	ClassA

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid 1 to plate	0.55 pF	Direct interelectrode capacitance

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	15 pF	Direct interelectrode capacitance
Output capacitance	7 pF	Direct interelectrode capacitance



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1966 Tung Sol Electronic Tubes 3 of 4

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1966 TUNG SOL ELECTRONIC TUBES 3 OF 4

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	25 V	TypicalOperation
Heater current	300 mA	TypicalOperation
Maximum DC plate voltage including boost	700 V	WholeTube
Maximum positive pulse plate voltage	6000 V	HorizontalDeflection
Maximum negative pulse plate voltage	1375 V	HorizontalDeflection
Maximum DC cathode current	140 mA	WholeTube
Maximum peak cathode current	440 mA	WholeTube
Plate resistance	20000 ohm	ClassA1
Transconductance	6600 μS	ClassA1
Plate current	75 mA	ClassA1

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid 1-to-plate capacitance	0.55 pF	WholeTube
Input capacitance	15 pF	WholeTube
Output capacitance	7 pF	WholeTube