



ELECTRONIC TUBE REFERENCE

25JQ6

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

BEAMPOWER-DIODE

Beam-power tube with an integral diode, a heater variant of its explicitly referenced parent family and intended for television deflection/output service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	25.2 V / 300 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Beam Power	
PLATE RESISTANCE	10500 Ω
TRANSCONDUCTANCE	0.0042 S
MAXIMUM PLATE VOLTAGE	425 V
MAXIMUM PLATE DISSIPATION	10 W
MAXIMUM SCREEN DISSIPATION	2 W
<i>Inherited from explicitly referenced parent 6JQ6; supplied sheet changes heater characteristics.</i>	

SECTION2 Diode	
MAXIMUM CATHODE CURRENT	5 mA
PEAK INVERSE VOLTAGE	425 V
FORWARD VOLTAGE DROP	5 V
<i>Inherited from explicitly referenced parent 6JQ6; supplied sheet changes heater characteristics.</i>	

The 25JQ6 is a beam power tube. The supplied datasheet was used for heater, ratings, characteristics, and operating data; where the sheet explicitly states equivalence to a 6-volt parent, that parent electrical data is inherited while retaining this tube's heater characteristics.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

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Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
PLATE DISSIPATION =	10 WATTS	Published table value Inherited from explicitly referenced 6JQ6.
Heater Voltage (AC or DC) Eh	6.3 V	Published table value Inherited from explicitly referenced 6JQ6.
Heater Current Ih	1.2 A	Published table value Inherited from explicitly referenced 6JQ6.
Grid No	1 pF	Published table value column 1 Inherited from explicitly referenced 6JQ6.
Grid No	0.32 pF	Published table value column 2 Inherited from explicitly referenced 6JQ6.
Input: G	13 K	Published table value Inherited from explicitly referenced 6JQ6.
Output: Pto(K, G	6 K	Published table value Inherited from explicitly referenced 6JQ6.
DC Plate Current Ib	150 mA	Published table value column 1 Inherited from explicitly referenced 6JQ6.
DC Plate Current Ib	35 mA	Published table value column 2 Inherited from explicitly referenced 6JQ6.
DC Grid-No	2 mA	Published table value column 1 Inherited from explicitly referenced 6JQ6.
DC Grid-No	20 mA	Published table value column 2 Inherited from explicitly referenced 6JQ6.
DC Grid-No	2.5 mA	Published table value column 3 Inherited from explicitly referenced 6JQ6.
Cutoff DC Grid-No. 1 Voltage. Ecl(co)	-37 V	Published table value Inherited from explicitly referenced 6JQ6.
DC Plate Voltage Eb	40 V	Published table value column 1 Inherited from explicitly referenced 6JQ6.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC Plate Voltage Eb	140 V	Published table value column 2 Inherited from explicitly referenced 6JQ6.
DC Grid-No	3 V	Published table value column 1 Inherited from explicitly referenced 6JQ6.
DC Grid-No	0 V	Published table value column 2 Inherited from explicitly referenced 6JQ6.
DC Grid-No	0 V	Published table value column 3 Inherited from explicitly referenced 6JQ6.
~", DC Grid-No	2 V	Published table value column 1 Inherited from explicitly referenced 6JQ6.
~", DC Grid-No	120 V	Published table value column 2 Inherited from explicitly referenced 6JQ6.
~", DC Grid-No	140 V	Published table value column 3 Inherited from explicitly referenced 6JQ6.
DC Grid-No. l Voltage Ecl	0 V	Published table value column 1 Inherited from explicitly referenced 6JQ6.
DC Grid-No. l Voltage Ecl	-18 V	Published table value column 2 Inherited from explicitly referenced 6JQ6.
DC Plate Voltage Eb	425 V	Published table value Inherited from explicitly referenced 6JQ6.
DC Grid-No	2 V	Published table value column 1 Inherited from explicitly referenced 6JQ6.
DC Grid-No	330 V	Published table value column 2 Inherited from explicitly referenced 6JQ6.
(Control-Grid) Voltage eclm	150 V	Published table value Inherited from explicitly referenced 6JQ6.
Heater Voltage (AC or DC) ~h	5.7 V	Published table value column 1 Inherited from explicitly referenced 6JQ6.
Heater Voltage (AC or DC) ~h	6.9 V	Published table value column 2 Inherited from explicitly referenced 6JQ6.
(& Grid-No	3 mA	Published table value Inherited from explicitly referenced 6JQ6.
Grid-No	2 W	Published table value column 1 Inherited from explicitly referenced 6JQ6.
Grid-No	2 W	Published table value column 2 Inherited from explicitly referenced 6JQ6.
Plate Dissipation b	10 W	Published table value Inherited from explicitly referenced 6JQ6.
a With grid No	3 a	Published table value Inherited from explicitly referenced 6JQ6.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
W GRID-Na	140 W	Published table value Inherited from explicitly referenced 6JQ6.

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance gm	4200 μ S	Published table value Inherited from explicitly referenced 6JQ6.

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Section 2 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC Grid-No	3 V	Published table value column 1 Inherited from explicitly referenced 6JQ6.
DC Grid-No	10 V	Published table value column 2 Inherited from explicitly referenced 6JQ6.
Maximum Reverse Voltage	425 V	—
Maximum Cathode Current	5 mA	—