

ELECTRONIC TUBE REFERENCE

7241

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Long-life high-power triode with three grid-cathode structures specifically designed as a series-regulator/pass tube in regulated power supplies.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 7.5 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	67 Ω
TRANSCONDUCTANCE	0.033 S
AMPLIFICATION FACTOR	2.7
MAXIMUM PLATE VOLTAGE	400 V
MAXIMUM PLATE DISSIPATION	100 W
MAXIMUM CATHODE CURRENT	400 mA
Representative row for repeated electrically identical physical sections.	

THE 7241 IS A LONG LIFE, HIGH POWER TRIODE DEVELOPED ESPECIALLY FOR USE



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 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MinimumCathodeHeatingTime	30 s	—
CurrentPerCathodeMaximum	400 mA	—
AltitudeForFullRatings	10000 ft	—
ExtendedAltitudeWithCooling	60000 ft	—
ShockRating	450 g	—
VibrationRating	2.5 g	—
Service	Series regulator / passing tube	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1966 Tung Sol Electronic Tubes 4 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 4 OF 4

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Nominal
Heater current	7.5 A	Nominal
Maximum plate voltage	400 V	Promoted published value
Maximum cathode current	400 mA	Promoted published value
HEATER VOLTAGE 6.3f10\$ voLTs	10 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HEATER CURRENT (Ef 6.3 V.)],	5 A	—
T OT AI PLATE CURRENT DC --- 1.Z AMP.	1 A	RATINGS
IF TUBE VOLTAGE DROP IS TO BE SWUNG MORE THAN	6 V	RATINGS
HEATER- CATHODE VOLTAGE (DC) –300	300 V	CURRENT CANNOT BE REALIZED. SEE PLATE CHARACTERISTICS CURVE
HEATER VOLTAGE jF.] ().	9 V	CURRENT CANNOT BE REALIZED. SEE PLATE CHARACTERISTICS CURVE
ALTITUDE FOR FULL RATINGS 10,	0 ft	ALTITUDE FOR FULL RATINGS 10,000 FEET
R ATINGS~ ALTITUDE RATING CAN BE EXTENDED TO	60000 ft	ALTITUDE FOR FULL RATINGS 10,000 FEET
BE	27 ohm	ALTITUDE FOR FULL RATINGS 10,000 FEET
PLATE CURRENT (MIN.) 450 MA	45 mA	ALTITUDE FOR FULL RATINGS 10,000 FEET
HK LEAKAGE (MAX.) _ 150 µA	15 mA	ALTITUDE FOR FULL RATINGS 10,000 FEET
GRID CURRENT (MAX.)	12 mA	ALTITUDE FOR FULL RATINGS 10,000 FEET
TOTAL PLATE CURRENT u95 60C MA~DC	6 mA	ALTITUDE FOR FULL RATINGS 10,000 FEET
AMPLIFICATION FACTOR 2.0 3.4	3.4 A	ALTITUDE FOR FULL RATINGS 10,000 FEET
HEATER CURRENT PER TUBE x.12 7.HH AMP.	7 A	ALTITUDE FOR FULL RATINGS 10,000 FEET
GRID RESISTANCE THAT MEETS BOTH THESE CONDITIONS IS	1000 ohm	CHARACTERISTICS CURVE. IF THE OUTPUT CURRENT OF THE SUPPLY IS NOT FIXED

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	33000 uS	Promoted published value
Amplification factor	2.7	Promoted published value
PASS MORE THAN ONE AMPERE AT	100 W	—
MINIMUM CATHODE HEATING TIME 30 SECONDS	3 s	—
AMPLIFICATION FACTOR 2.7	2.7 A	—
CURRENT PER CATHODE (DC) --- 400 MA.	4 mA	CURRENT CANNOT BE REALIZED. SEE PLATE CHARACTERISTICS CURVE
GRID VOLTAGE (DC) –300 0 VOLTS	3 V	CURRENT CANNOT BE REALIZED. SEE PLATE CHARACTERISTICS CURVE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
ENVELOPE TEMPERATURE	300 C	CURRENT CANNOT BE REALIZED. SEE PLATE CHARACTERISTICS CURVE
ADDITIONAL VOLTAGE (LESS THAN	10 V	CHARACTERISTICS CURVE. IF THE OUTPUT CURRENT OF THE SUPPLY IS NOT FIXED
VOLTAGE SHOULD BE KEPT AS CLOSE AS POSSIBLE TO	6.3 V	CHARACTERISTICS CURVE. IF THE OUTPUT CURRENT OF THE SUPPLY IS NOT FIXED