



ELECTRONIC TUBE REFERENCE

25D4

Rectifier - Damper Diode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

Indirectly heated half-wave rectifier for television horizontal-deflection damping, with approximately 4.4 kV inverse-voltage and 900 mA peak-current capability.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	25 V / 300 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
MAXIMUM PLATE DISSIPATION	5.5 W
PEAK INVERSE VOLTAGE	4400 V
NOMINAL OUTPUT CURRENT	155 mA
PEAK FORWARD CURRENT	900 mA
FORWARD VOLTAGE DROP	22 V
MAXIMUM HEATER-CATHODE VOLTAGE	4400 V
WARM-UP TIME	11 s
<i>Damper diode; design-center DC plate current also published as 145 mA.</i>	

The 25D4 is an indirectly heated half-wave rectifier designed for damping-diode service in horizontal-deflection circuits of series-heater television receivers, with controlled heater warm-up characteristics.

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 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	25 V	Nominal
Heater current	300 mA	Nominal
Maximum DC plate current	155 mA	DamperService
Maximum peak plate current	900 mA	DamperService
Heater-cathode voltage, heater negative, DC and peak	4400 V	DamperService
Heater-cathode voltage, heater positive, DC and peak	300 V	DamperService

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube voltage drop at 250 mA	22 V	DamperService
Heater warm-up time	11 s	ControlledWarmup

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater to cathode	3 pF	Approximate
Plate to cathode and heater	6 pF	Approximate
Cathode to plate and heater	8 pF	Approximate

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 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum peak inverse voltage	4400 V	HorizontalDeflection
Maximum DC plate current	155 mA	WholeTube
Design-center DC plate current	145 mA	WholeTube
Maximum peak plate current	900 mA	WholeTube

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater-to-cathode capacitance	3 pF	WholeTube
Plate-to-cathode-and-heater capacitance	6 pF	WholeTube
Cathode-to-plate-and-heater capacitance	8 pF	WholeTube