



ELECTRONIC TUBE REFERENCE

Y1541

Power - Triode Single (under 10W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Ceramic-metal high-mu planar power triode for grid-pulsed oscillator and amplifier service to approximately 6 GHz. Rugged construction, rapid cathode warm-up, and high gain support microwave pulse operation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 610 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.022 S
AMPLIFICATION FACTOR	58
MAXIMUM PLATE VOLTAGE	1200 V
MAXIMUM PLATE DISSIPATION	6.5 W
MAXIMUM CATHODE CURRENT	1.6 A

The Y-1541 is a high-mu triode of ceramic and metal construction intended for use as a grid-pulsed oscillator or amplifier at frequencies up to 6000 megahertz. The rugged bonded-heater construction provides fast cathode warm-up.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 General Electric Co

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

1968 GENERAL ELECTRIC CO

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage ACorDCe_ _ 60 6 3	6.6 V	AVERAGE CHARACTERISTICS Test Conditions
Cathode Warm-up Time	4 s	AVERAGE CHARACTERISTICS Test Conditions
VTLI T 3o S AT	1 us	AVERAGE CHARACTERISTICS Test Conditions
Plate SUPPLY Vol age i it e it it e e et i e a e	1150 V	AVERAGE CHARACTERISTICS Test Conditions
DC Grid Voltage otth i i i it et itth etth tteaanae s e tanasnansonnnsnnananans	-40 V	AVERAGE CHARACTERISTICS Test Conditions
Plate Current Average DURING PULSE tth itth it itth iteeie e enesnrarnesneseronsnenennens	1.5 A	AVERAGE CHARACTERISTICS Test Conditions
Grid Current Average DURING PULSE ooit itth itth tieeaetnetnenraeseconeanrasseensnnannens	500 mA	AVERAGE CHARACTERISTICS Test Conditions
Power Output Average During PulsSe it it i itth et et taiiie e nnreeaaaann	400 W	AVERAGE CHARACTERISTICS Test Conditions

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Supply Voltage cooviiiiinciiiiiii itth it ieinee e e etth	1200 V	ABSOLUTE-MAXIMUM RATINGS
PULSE DUIAEION tth vttt e enee e eesunesoesaaaaenssnnsasesosaeacesseesensssaseanssssnssnesssnsssasens	2 us	ABSOLUTE-MAXIMUM RATINGS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current Average DURING Pulse OTT iTT iitienntnoensensneeeeerssracnssnsnns	1.6 A	ABSOLUTE- MAXIMUM RATINGS
Negative DC Grid Voltage et t et eeee et ee ettt et	100 V	ABSOLUTE- MAXIMUM RATINGS
Grid Current Average During Pulse P R	500 mA	ABSOLUTE- MAXIMUM RATINGS
Plate Dissipation v vt ettt it iaIt i et it i i i ettt	6.5 W	ABSOLUTE- MAXIMUM RATINGS
Heater Positive with Respect to Cathode OTT iT e iTT iT tsaaenanas	50 V	ABSOLUTE- MAXIMUM RATINGS
Heater Negative with Respect to Cathode ttt iT i iete i iaeeeaanns	50 V	ABSOLUTE- MAXIMUM RATINGS

TUBE TINKER

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