NATIONAL UNION ELECTRON TUBE

NEW

N.U. 2C53



HIGH MU TRIODE AMPLIFIER

The 2C53 is a Very High Mu Triode designed for use in regulated power supplies or voltage amplifiers operating at plate potentials between 1 and 8 kv. This tube is particularly useful as a shunt regulator in equipment requiring stabilized output voltage essentially independent of line voltage variations and variations in load current.

Low capacities, high gain, and high voltage ratings make this tube well suited for television and oscilloscope sweep circuits employing electrostatic deflection

MAXIMUM RATINGS: -

Heater Voltage	6.3	Volts	± 10%
Anode Voltage	8000	Volts	max.
Plate Current (Average)	5.0	mor.	max.
Plate Current (Peak)	100	ma.	max.
Grid Voltage	-20 0	Volts	max.
Plate Dissipation	12.0	Watts	DCIX .
Heater cathode voltage	±300	Volts	max.

ELECTRICAL RATINGS:-

Heater	Unipotential Cathode
Voltage	-6.3 Volts ± 10%
Current	.30 Amps.
Amplification Factor	5 0 0
Plate Resistance @ Eb = 4 kv	.525 megs.
Transconductance @ $Ec = -5 \text{ V}$	950 umhos

DIRECT INTERELECTRODE CAPACITANCES: -

Grid to Plate	. 62	uuf.
Grid to Cathode	5.20	uuf.
Cathode to Plate	2.30	uuf.

MECHANICAL RATINGS: -

Maximum Overall Length Maximum Seated Length Maximum Diameter Bulb Base Cap	3 7/8 inches 3 3/8 inches 1 5/16 T - 9 8 pin Octal Small
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Mounting Position Any

BASING: -

Pin 1	- Shield	Pin 5	_	Grid
Pin 2	- Heater	Pin 6	-	NC
Pin 3	- NC	Pin 7	_	Heater
Pin 4	- NC	Pin 8	-	Cathode
	Top Cap -	- Plate		

TYPICAL OPERATION - SHUNT REGULATORS

Series Resistance Unregulated Input Voltage	0.5 5.4	meg.
Regulated Output Voltage	4.0	kv.
Cathode Voltage	210	Volts
Plate Current	0.9	ma.
Load Current	0.6	mor.

October 25, 1946

Prepared by

(See Reverse)



