Sylvania

TYPE 18

POWER





CHARACTERISTICS

Heater Voltage AC or l	DC	;						14.	0-	Volts
Heater Current								0	.3	Ampere
Maximum Over-all Len	gt	h.								4 11 "
Maximum Diameter										
Bulb								1		ST-14
Base-Medium 6-Pin			÷							6-B

Co	nd	iti	on	s a	inc	1 C	ha	ıra	cte	eris	stic	cs:				4
														14.0	Volts	
														-16.5	Volts	
	9													34	Ma.	
tar	ice													2350	μmhos	
														185		
								į,				-		7000	Ohms*	
												7 30	8	3.0	Watts	
	taract	tance	tance .	tance	tance .	tance	tance	tance actor	. 14.0 . 25016.5 . 250 . 34 . 7.5 . 79000 .tance 2350 .ctor 185 .ctor 7000	. 14.0 Volts . 250 Volts16.5 Volts . 250 Volts . 250 Volts . 34 Ma 7.5 Ma 79000 Ohms . 2350 µmhos . 2350 µmhos						

*A load resistance of 7000 ohms gives the same power output and percentage distortion as 9000 ohms.

CIRCUIT APPLICATION

Sylvania Type 18 is a cathode type output pentode similar in design and characteristics to Types 2A5 and 42 except for the heater rating. This type employs a 14 volt heater with a current rating of 0.3 ampere. Due to the similarity in design and construction, identical performance may be obtained from the 18

or the 42 when operated under similar conditions.

The 18 is an ideal tube for use in transformerless sets which use the 25Z5 as a voltage doubler. In such sets the heaters are connected in series. This operation is possible because the heater current rating of the 18, the 25Z5, and other suitable tubes is the same. Due to this fact, the necessity of using shunting resistors in any of the heater circuits is eliminated. The advantage of the higher heater voltages of the rectifier (25 volts) and the output tube (14 volts) is evident, since the heat dissipation in the fixed series resistor usually necessary in the heater circuit is reduced.

For a more detailed discussion on the application of the 18 refer

to Circuit Application given on Type 42.