

TUNG-SOL

HALF-WAVE HIGH-VACUUM RECTIFIER

MINIATURE TYPE

PHYSICAL SPECIFICATIONS

EMITTER COATED FILAMENT		PIN CONNECTIONS	
BASE MINIATURE BUTTON 7-PIN		PIN 1 FILAMENT-	PIN 7 FILAMENT +
CAP		PIN 2 1C-DO NOT USE	PIN 8 NONE
BULB	T- 5 $\frac{1}{2}$	PIN 3 1C-DO NOT USE	BULB TERMINAL PLATE
MAX. DIAMETER	3/4"	PIN 4 NO CONNECTION	
MAX. SEATED HEIGHT	2 3/16"	PIN 5 NO CONNECTION	MOUNTING POS. ANY
MAX. OVERALL LENGTH	2 7/16"	PIN 6 1C-DO NOT USE	

RATINGS^A

INTERPRETED ACCORDING TO RMA STANDARD M6-230

HEATER OR FILAMENT VOLTAGE (AC OR DC)	1.4	VOLTS
HEATER OR FILAMENT CURRENT	0.05	AMP
MAXIMUM PEAK INVERSE PLATE VOLTAGE	7000	VOLTS
MAXIMUM PEAK PLATE CURRENT ^B	6	MA.
MAXIMUM AVERAGE PLATE CURRENT	1	MA.
^A THESE RATINGS APPLY TO THE 1654 WHEN IT IS OPERATED FROM A POWER SUPPLY HAVING A FREQUENCY UP TO 500 CYCLES PER SECOND.		
^B A PEAK VALUE OF 20 MA. FOR 0.1 SECOND IS PERMITTED UNDER CONDITIONS OF "HOT-SWITCHING", I.E., SWITCHING THE PLATE CIRCUIT "ON" WHILE THE FILAMENT IS HOT.		

DIRECT INTERELECTRODE CAPACITANCE (APPROX.)
WITH NO EXTERNAL SHIELD

PLATE TO FILAMENT	1.4	μ f
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TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

HALF-WAVE RECTIFIER

AC PLATE-SUPPLY VOLTAGE	2500	VOLTS
FILTER INPUT CONDENSER	0.025	μ f
TOTAL EFFECTIVE PLATE-SUPPLY IMPEDANCE	175 000	OHMS
DC OUTPUT VOLTAGE (APPROX.) - AT INPUT TO FILTER	2350	VOLTS
DC OUTPUT CURRENT	1	MA.

CIRCUIT VALUES

A PLATE-SUPPLY IMPEDANCE OF 175000 OHMS IS REQUIRED SO THAT THE "HOT-SWITCHING" CURRENT WILL NOT EXCEED THE 20 MA. ALLOWABLE UNDER CONDITIONS OF NORMAL LINE-VOLTAGE FLUCTUATIONS.

THE PLATE-SUPPLY IMPEDANCE MAY BE DECREASED FOR PLATE-SUPPLY VOLTAGES LESS THAN 2500 VOLTS IF THE RESULTANT PEAK-CURRENT RATING OF 6 MA. AND THE "HOT-SWITCHING" CURRENT OF 20 MA. ARE NOT EXCEEDED.

NOTE: THE 1654 IS A MINIATURE, HALF-WAVE, HIGH VACUUM TUBE DESIGNED FOR HIGH VOLTAGE, LOW-CURRENT OPERATION WHERE THE POWER-SUPPLY FREQUENCY DOES NOT EXCEED 500 CYCLES PER SECOND. IT IS ESPECIALLY USEFUL IN EQUIPMENT DESIGN WHERE SPACE AND LOW FILAMENT DRAIN ARE HIGHLY SIGNIFICANT FACTORS.

1654

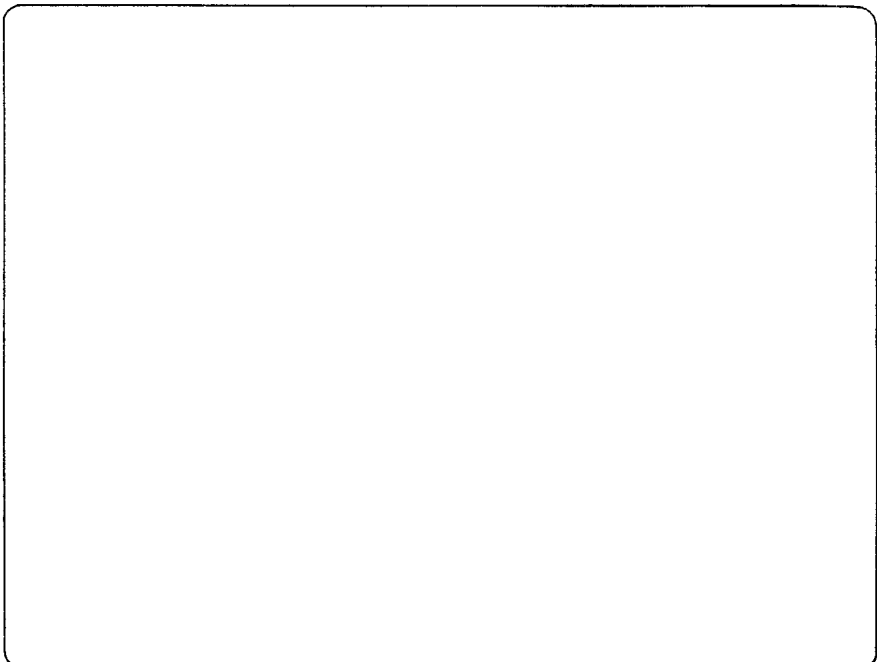
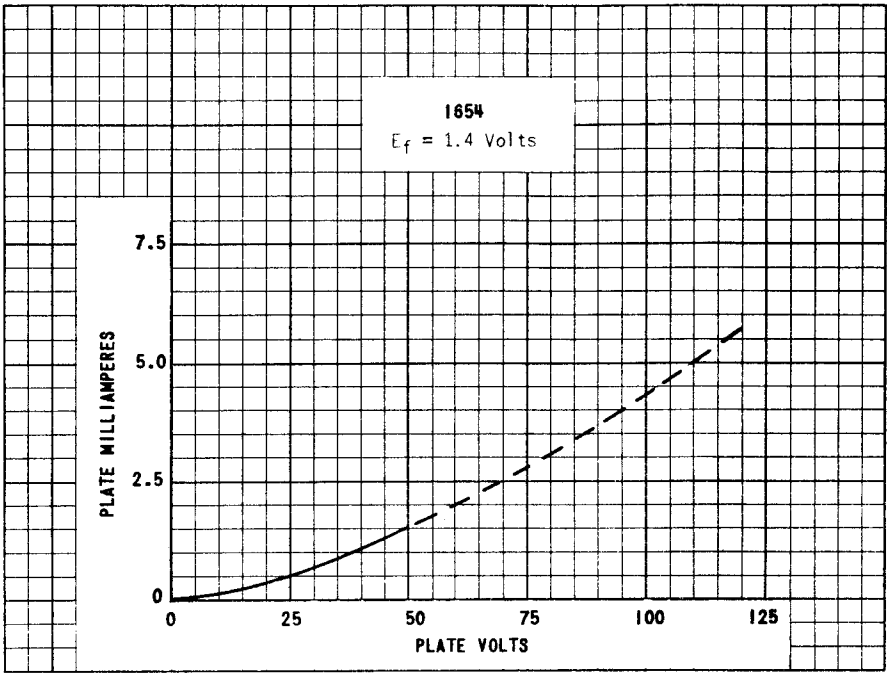


PLATE
1689
FEB. 15
1946