



FULL-WAVE MERCURY VAPOR RECTIFIER

	Filament Coated			l		
	Voltage 5.0		a-c volts			
	Current 3.0		amp.			
	Maximum Overall Length		5-3/8"	l		
•	Maximum Seated Height		4-3/4"			
	Maximum Diameter		2-1/16"			
	Bul b		ST-16			
	Base (T •)		ium 4-Pin			
	Pin 1-Filament	Pin 3-P		ł		
	Pin 2-Plate #2	Pin 4-F				
	Mounting Position BOTTOM VIEW (4C)	Vertical,	base down	į		
	FULL-WAVE RECTIFIER	_		_		
	Peak Inverse Voltage	1550 max.	volts			
	Peak Plate Current per Plate	1.0 max.				
	Condensed Mercury Temperature Range	20° - 6	0 _o C	ŀ		
	With Condenser-Input Filter:	450	3 4 -			
	A-C Plate Voltage per Plate (RMS)	450 max.	volts			
	Total Effective Plate—Supply Imped—	50 '				
	ance per Plate▲	50 min.	ohms			
	D-C Output Current	225 max.	ma.			
	With Choke-Input Filter:					
	A-C Plate Voltage per Plate (RMS)	550 max.		l		
	Input-Choke Inductance	3 min.	henries			
	D-C Output Current	225 max.	ma.			
	Tube Voltage Drop HALF-WAVE RECTIFIER	15 approx	VOI LS			
	As a half-wave rectifier, the 83 is operated with plates connected in					
	parallel. Two 83's so connected in a full-wave circuit can supply twice					
	the output current of a single tube. Both plat should be connected to the same terminal of the	plate transfo	rmer. To			
	equalize the current distribution between plates than 50 ohms should be connected in series with	s, a resistor o each plate.	T not less	ŀ		
	▲ When a filter—input condenser larger than #0	μf is used.	it may be	_		
	necessary to use more plate—supply impedance shown to limit the peak plate current to the r		imum value			
	→ Indicates a change.					
	M 83-V					

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FULL-WAVE HIGH-VACUUM RECTIFIER

		Unipotential			
	Voltage	5.0	a-c volts		
	Current	2.0	amp.		
	Maximum Overall Length		4-11/16"		
•	Maximum Seated Height		4-1/16"		
i	Maximum Diameter		1–13/16"		
	Bulb		ST-14 .		
	Base	2	Medium 4-Pin		
1	Pin 1-Heater	(± ±)	Pin 3-Plate #1		
	Pin 2-Plate #2	7 25 7	Pin 4-Heater &		
		1	Cathode		
	Mounting Position 8	BOTTOM VIEW (4	AD) Any		
	For Curves and additional data, see Type 574-G.				
	* The cathode of the 83-v is connected to the heater within the tube.				