Half-Wave Vacuum Rectifier

Duodecar Type Pressure-Welded Cathode Coating For Color-TV Damper-Diode Applications

ELECTRICAL CHARACTERISTICS - Bogey Values			
Heater Voltage, ac or dc	$\mathbf{E_h}$	6.3	V
Heater Current	**	1.8	Α
Direct Interelectrode	••		
Capacitances: a Plate to cathode and heater.	С.	13	pF
Cathode to plate and heater.	cp(k+h)	16	рF
Heater to cathode	ck(p+h)	4.0	_
Instantaneous Tube Voltage	^c h-k	4.0	p.
Drop for instantaneous			
plate current $(i_b) = 700 \text{ mA}$	$^{ m e}{}_{ m b}$	25	V
MECHANICAL CHARACTERISTICS			
Maximum Overall Length		3.375 i	n (85.72 mm)
Maximum Seated Length		3.000	in (76.2 mm)
Maximum Diameter		1.188	in (30.1 mm)
Envelope JEDEC T9			
Base b Duodecar 12-Pin with Exhaust Tip (JEDEC E12-70)			
Terminal Diagram JEDEC 12HF			
Type of Cathode			
Operating Position			Any
MAXIMUM RATINGS - Design-Maximum Values ^c			
For operation as a Damper Tube in Color-TV Receivers			
utilizing a 525-line, 30-frame system			
Peak Inverse Plate Voltage.	-е _{bm}	5000 ^d	V
Heater-Cathode Voltage:		(+300	V
Peak	e _{hkm}	1 -5000	V
Average •	Ε	(+100	V
iverage	hk(av)	1-900	V
Heater Voltage, ac or dc···	$\mathbf{E_h}$	5.7 to 6.9	v
Plate Current:		2100	
Peak	¹ bm	2100	mA
Plate Dissipation	lb(av)	350 6.5	mA w
rate Dissipation	P _b	0.0	W

Envelope Temperature (at

hottest point on envelope

surface) $T_{
m E}$ 220 $^{
m o}$ C

- a Measured without external shield in accordance with the current issue of EIA Standard RS-191.
- b Designed to mate with Duodecar 12-Contact Socket generally available from your local RCA Distributor.
- c As defined in the current issue of EIA Standard RS-239.
- d This rating is applicable when the duration of the voltage pulse does not exceed 15% of one horizontal scanning cycle. In a 525-line, 30-frame system, 15% of one horizontal scanning cycle is $10~\mu s$.
- e Measured with a dc meter.

OPERATING CONSIDERATIONS

Socket terminals 2, 5, 6, 8 and 9 should not be used as tie points for external-circuit components. It is recommended that the socket tabs be removed to reduce the possibility of arc-over and to minimize leakage.

TERMINAL DIAGRAM (Bottom View)

Pin 1: Heater

Pin 2: Do Not Use

Pin 3: No Internal Connection

Pin 4: Plate

Pin 5: Do Not Use

Pin 6: Do Not Use

Pin 7: Cathode

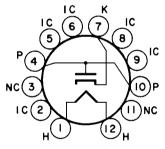
Pin 8: Do Not Use

Pin 9: Do Not Use

Pin 10: Plate

Pin 11: No Internal Connection

Pin 12: Heater



JEDEC 12HF