Half-Wave Vacuum Rectifier

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

ELECTRICAL CHARACTERISTICS - Bogs	ey Values	;
Heater Voltage, ac or dc Eh	6.3	v
Heater Current Ih	2.5	Α
Direct Interelectrode		
Capacitances: a		
Plate to cathode and heater . $c_{p(k+h)}$	13	рF
Cathode to plate and heater $c_{k(p+h)}^{p(k+h)}$	18	pF
Heater to cathode $c_{h-k}^{R(p+n)}$	5.5	pF
Instantaneous Tube Voltage		•
Drop for instantaneous		
plate current $(i_b) = 680 \text{ mA} \dots e_b$	20	V
5 6		
MECHANICAL CHARACTERISTICS		
Maximum Overall Length	3.375 in	(85.72 mm)
Maximum Seated Length 3		
Maximum Diameter		
Envelope		JEDEC T9
Base Duodecar 12-Pin with Exhaust Tip		
		C E12-70)
Terminal Diagram	JE	DEC 12GK
Type of Cathode		
Operating Position		
		_
MAXIMUM RATINGS - Design-Maximum Val	lues ^c	
For operation as a Damper Tube in Col	or-TV Re	ceivers
utilizing a 525-line, 30-frame		
Peak Inverse Plate Voltagee _{bm}	5000	d _V
Heater-Cathode Voltage:	0000	•
-	(+300	v
Peak ehkm	-500	•
	(+100	V
$\text{Average}^{\textbf{e}} \dots $	-900	v
Heater Voltage, ac or dc E _b	5.7 to 6	
Heater Voltage, ac or dc E _h Plate Current:	5.7 10 0	••• V
D 1	1500	m A
OIII	350	mA mA
Average $I_{b(av)}$ Plate Dissipation P_{L}		W
Plate Dissipation P _b	11	***

Envelope Temperature (at hottest point on envelope surface) T_E 220 °C

- 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.
- 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, 3, 5, 6, 8, 9 and 11 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: Do Not Use

Pin 4: Plate

Pin 5: Do Not Use

Pin 6: Do Not Use

Pin 7: Cathode

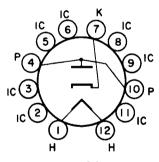
Pin 8: Do Not Use

Pin 9: Do Not Use

Pin 10: Plate

Pin 11: Do Not Use

Pin 12: Heater



JEDEC 12GK