Half-Wave Vacuum Rectifier

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

PEROLUGAE CHARACTER	21102-1	Bogey Value	es
Heater Voltage, ac or dc	$\mathbf{E_h}$	6.3	V
Heater Current	I _h	1.8	Α
Direct Interelectrode Capacitances:	••		
Plate to cathode and heater.	$c_{p(k+h)}$	13	pF
Cathode to plate and heater.	ck(p+h)	16	pF
Heater to cathode	c _{h-k}	4.0	pF
Instantaneous Tube Voltage Drop for instantaneous plate current (i _h) = 700 mA	•	25	v
J	e _b	20	v
MECHANICAL CHARACTER			
Maximum Overall Length			n (85.72 mm)
Maximum Seated Length			in (76.2 mm)
Maximum Diameter			
Envelope			
Base b Duodecar 12-Pin with Exhaust Tip (JEDEC E12-70)			
Terminal Diagram			
Terminal Diagram		J	EDEC 12HF
		J	EDEC 12HF Unipotential
Type of Cathode	-Maximum		EDEC 12HF Unipotential
Type of Cathode Operating Position MAXIMUM RATINGS - Design For operation as a Damper utilizing a 525-like	-Maximum	Color-TV Rame system	EDEC 12HF Unipotential
Type of Cathode	-Maximum		EDEC 12HF Unipotential
Type of Cathode	-Maximum Tube in ine, 30-fro	Color-TV Rame system	EDEC 12HF Unipotential Any eceivers
Type of Cathode	-Maximum Tube in	Values ^c Color-TV R ame system 5000 ^d	EDEC 12HF Unipotential Any eceivers V
Type of Cathode Operating Position MAXIMUM RATINGS - Design For operation as a Damper utilizing a 525-li Peak Inverse Plate Voltage Heater-Cathode Voltage: Peak	-Maximum Tube in ne, 30-fro	Values ^c Color-TV R ame system 5000 ^d § +300	EDEC 12HF Unipotential Any eccivers V V
Type of Cathode	-Maximum Tube in ine, 30-fro	Values ^c Color-TV R me system 5000 ^d +300 -5000	EDEC 12HF Unipotential Any eceivers V V V
Type of Cathode Operating Position MAXIMUM RATINGS - Design For operation as a Damper utilizing a 525-li Peak Inverse Plate Voltage Heater-Cathode Voltage: Peak Average Heater Voltage, ac or dc Plate Current:	-Maximum Tube in ne, 30-fro	Values ^c Color-TV R ame system 5000 ^d +300 -5000 +100	EDEC 12HF Unipotential Any eceivers V V V V
Type of Cathode Operating Position MAXIMUM RATINGS - Design For operation as a Damper utilizing a 525-li Peak Inverse Plate Voltage Heater-Cathode Voltage: Peak Average Heater Voltage, ac or dc Plate Current: Peak	-Maximum Tube in ne, 30-fro ehkm Ehk(av) Eh	Values ^c Color-TV R ame system 5000 ^d +300 -5000 +100 -900	EDEC 12HF Unipotential Any eceivers V V V V V
Type of Cathode Operating Position MAXIMUM RATINGS - Design For operation as a Damper utilizing a 525-li Peak Inverse Plate Voltage Heater-Cathode Voltage: Peak Average Heater Voltage, ac or dc Plate Current:	-Maximum Tube in ne, 30-fro -e bm e hkm E hk(av)	Color-TV R me system 5000 +300 -5000 +100 -900 5.7 to 6.9	EDEC 12HF Unipotential Any eceivers V V V V V V

Envelope Temperature (at

hottest point on envelope

surface)

 $T_{\mathbf{E}}$

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.
- 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 μ 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

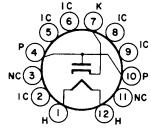
Pin 8: Do Not Use

Pin 9: Do Not Use

Pin 10: Plate

Pin 11: No Internal Connection

Pin 12: Heater



JEDEC 12HF