Half-Wave Vacuum Rectifier

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

ELECTRICAL CHARACTERISTICS - Bog	ey Values	
Heater Voltage, ac or dc Eh	6.3	V
Heater Current Ih	2.5	A
Direct Interelectrode		
Capacitances: a		
Plate to cathode and heater $c_{p(k+h)}$	13	pF
Cathode to plate and heater . $c_{k(n+h)}$	18	рF
Heater to cathode c _{h-k}	5.5	pF
Instantaneous Tube Voltage		
Drop for instantaneous		
plate current $(i_b) = 680 \text{ mA}$ e_b	20	V
MECHANICAL CHARACTERISTICS		
Maximum Overall Length	3.375 in (85.7	72 mm)
Maximum Seated Length		
Maximum Diameter	1.188 in (30.1	l mm)
Envelope	JED	EC T9
Base Duodecar 12-P	in with Exhau	st Tip
	(JEDEC E	19-70)
	(OEDEC E	12-10/
Terminal Diagram		
Terminal Diagram	JEDEC	12GK
	JEDEC	12GK tential
Type of Cathode	JEDEC	12GK tential
Type of Cathode	JEDEC Coated Unipo 	12GK tential . Any
Type of Cathode	JEDEC Coated Unipol 	12GK tential . Any
Type of Cathode	Coated Unipological Coated Unipological Coated Unipological Coated Unipological Coated	12GK tential . Any
Type of Cathode	JEDEC Coated Unipol 	12GK tential . Any
Type of Cathode	Coated Unipole Coated Unipole Cor-TV Receive system 5000	12GK tential . Any
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Type of Cathode	Coated Unipor Coated Unipor CorTV Receive system 5000d +300 -5000	tential . Any ers V
Type of Cathode Operating Position MAXIMUM RATINGS - Design-Maximum Va For operation as a Damper Tube in Col utilizing a 525-line, 30-frame Peak Inverse Plate Voltageebm Heater-Cathode Voltage: Peak	Coated Unipor Coated Unipor CorTV Receive system 5000d +300 -5000 (+100	tential . Any ers V V V V
Type of Cathode	Coated Unipor Cortain Street Cor-TV Receive system 5000 +300 -5000 +100 -900	tential . Any ers V V V V V
Type of Cathode Operating Position MAXIMUM RATINGS - Design-Maximum Vo For operation as a Damper Tube in Col utilizing a 525-line, 30-frame Peak Inverse Plate Voltageebm Heater-Cathode Voltage: Peak	Coated Unipor Cortain Street Cor-TV Receive system 5000 +300 -5000 +100 -900	tential . Any ers V V V V V
Type of Cathode Operating Position MAXIMUM RATINGS - Design-Maximum Va For operation as a Damper Tube in Col utilizing a 525-line, 30-frame Peak Inverse Plate Voltageebm Heater-Cathode Voltage: Peak	Coated Unipor Coated Unipor CorTV Receive system 5000d +300 -5000 +100 -900 5.7 to 6.9	tential . Any ers V V V V V
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Envelope Temperature (at hottest point on envelope surface) TE

220

°C

- Measured without external shield in accordance with the current issue of EIA Standard RS-191.
- Designed to mate with Duodecar 12-Contact Socket generally available from your local RCA Distributor.
- 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 $10 \mu s$.
- 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

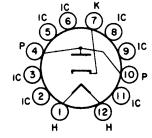
Pin 8: Do Not Use

Pin 9: Do Not Use

Pin 10: Plate

Pin 11: Do Not Use

Pin 12: Heater



JEDEC 12GK