

Gas-filled grid-controlled thyatron for industrial switching, controlled rectification, relay, motor-control, or pulse service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	— / —	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Thyatron
No fixed ratings recorded.
Source-derived physical/electrical section.

VVestinghousé WL-7556 January 15, 1960 THYRATRON TYPE WL-7556 The WL-7556 is a three-electrode, inert gas filled thyatron with a negative control characteristic. This tube is designed for industrial control applications. The WL-7556 is elcctrically similar to the WL-7306. ELECTRICAL: ABSOLUTE MAXIMUM YALUES Cothods. Directly Heatad Coated Filament Peak Ande Vohtage: Filoment: Min. Bogey Max. Forward. . .« v e vt iis e 1000 max. Yolts Voltage« .o o i iii e 2,37 2.50 2.63 Volts Inverse . . . i e e e e 1250 mox. Volts Current at Filament Volts=2.5. . . -- 9.0 11 Ampares Ande Current: Heating Time cea- 30 -- - - Seconds g T 30 max. Amperes Deionization Time less than 1000 Hsec Average. . .« v v i i s e 2,5 max. Amperes Ionization Time (Approx.) v vinn 10 isec Averaging Time. 4.5 max. Sac. Critical Grid Voltage See Critical Grid Voltage Curve Surge, max. Duration 0.1 sec.®: Maximum Critic

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1947 Westinghouse

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1947 WESTINGHOUSE

Section 1 · Thyatron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Voltage« .o o i iii e	1250	Voltage« .o o i iii e 2,37 2.50 2.63 Volts Inverse i e e e e 1250 max. Volts
Current at Filament Volts=	11	Current at Filament Volts=2.5. . . -- 9.0 11 Ampares Ancde Current:
Heating Time cea	30	Heating Time cea- 30 -- - Seconds g T 30 max. Amperes
Deionization Time less than	5	Deionization Time less than 1000 Hsec Average. . . « v v i i s e 2,5 max. Amperes
Ionization Time (Approx.) v vinn	4.5	Ionization Time (Approx.) v vinn 10 isec Averaging Time. 4.5 max. Sac.
Critical Grid Voltage See Critical Grid Voltage Curve Surge, max. Duration	0.1	Critical Grid Voltage See Critical Grid Voltage Curve Surge, max. Duration 0.1 sec.®:
Maximum Critical Grid Current . . ,	240	Maximum Critical Grid Current . . , ... 10 pamp Caonnaction {0}« 240 max, Amperes
Interelectrode Capacitances {Approx.}: Connection (b)	120	Interelectrode Capacitances {Approx.}: Connection (b) 120 max. Amperes
Anode to Grid + ... i et e e	120	Anode to Grid + ... i et e e 2 ipf Connection {€} . v v v e v v v vt 120 max. Amperes
Typical Are Drop. - . o . v v i e i i i i	10	Typical Are Drop. - . o . v v i e i i i i . 10 Volts Negative Control Grid Yoltage:
Control Characteristic . . o . . o v v v Negative Before Conduction	100	Control Characteristic . . o . o v v v Negative Before Conduction 100 max. Volts
Mounting Position i i i i Aay) S	0.1	Mounting Position i i i i Aay) S 0.10 max Amperes

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Bulb v T	70	Bulb v T-12 Ambient Temperature Range. -510+70 max. °C
initial inverse voltage of	350	initial inverse voltage of 350 volrs.
63 max, grid rasistor will reduce the negative voltage at th	63	63 max, grid rasistor will reduce the negative voltage at the grid from the
tive grid supply voltage to o value not more negative than	-10	tive grid supply voltage to o value not more negative than -10

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
GridtoCothade . .+ v -« . v v i v e e in i van	0.66	GridtoCothade . .+ v -« . v v i v e e in i van 10 Lt Commutotion Factor o v L. 0.66 moax. va/tsec

TUBE TINKER

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and their source documents.

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