

REFLECTOR FACTORY



Subminiature vacuum fluorescent digital indicator triode with direct heating cathode According to 3 031 004 TU

Filament Voltage, V	E	lectri	cal I	Data						Values
Static Mode Anode Segment Voltage, V	Filament Voltage, V.	•	•	•	•	•	•	•	•	1
Anode Segment Voltage, V	Filament Current, mA	•	•	•	•	•	•	•	•	50
Anode Segment Voltage, V			Stati	ic Mo	de					
Anode Segment Current, total maximum, mA	Anode Segment Voltage,					•	•	•	•	25
Pulse Mode Anode Segment Voltage, V										
Pulse Mode Anode Segment Voltage, V	Anode Segment Current,	total	maxi	imum,	mA	•	•	•	•	1,8
Anode Segment Voltage, V	Maximum Grid Current,	mA	•	•	•	•	•	•	•	10
Anode Segment Voltage, V			Puls	e Mod	le					
Grid Voltage, V	Anode Segment Voltage.	V				•	•	•	•	50
Guaranteed Minimum Operating Time, hours										-
Shelf Life - 4 years Glow Color - Green Absolute Maximum Values for Guaranteed Operation Filament Voltage, V, minimum										
Filament Voltage, V, minimum	Shelf Life - 4 years	rating	; Time	e, ho	ırs	•	•	•	•	15000
Static Mode Maximum Anode Segment Voltage, V	Absolute Maxi	mum V	alues	for	Guar	antee	d Ope	erati	on	
Static Mode Maximum Anode Segment Voltage, V	Filament Voltage. V. m	inimum	1 .		•	•	•			0.85
Maximum Anode Segment Voltage, V										
Maximum Anode Segment Voltage, V			CT - T3	t - Turo	. .					
Maximum Grid Voltage, V	Marinum Anada Sagmant 1	701±00								2∩
Max. Current of One Anode Segment @ Vanode=Vgrid=30V, mA . 0,5	_	_					•	•	•	
	Max. Current of One And	ode Se	gment	t @ V	anode=V	/ _{grid} =1	30 V. :	mA	•	0,5
Max. Grid Current @ Vanode=Vgrid=30V, mA			_			-				

IV-6 English Reference Sheet Translated: Oct. 3rd, 2021

Pulse Mode

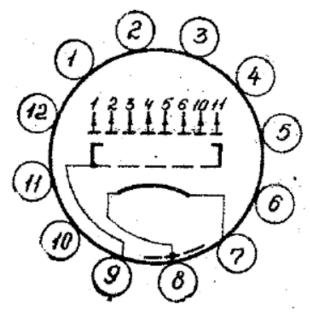
Maximum Anode Segment Voltage, V			
Maximum Grid Voltage, V			
Max. Current of One Anode Segment @ Vau=Vgu=70V,			
Max. Grid Current $@V_{au}=V_{gu}=70V$, mA	•	•	• 45
Minimum Duty Cycle	•	•	$\left(\frac{v_u^*}{20}\right)^{\frac{5}{2}}$
Ambient Temperature, °C, minimum maximum	•	•	. - 60
maximum	•	•	. +70

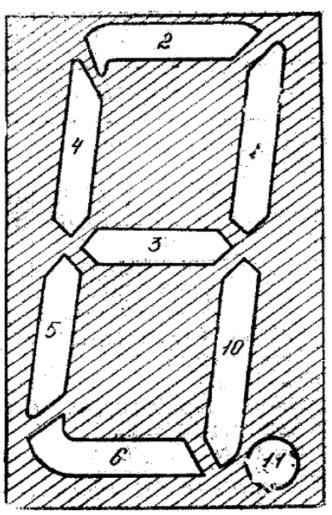
* V_u is the amplitude of the grid voltage pulse (and anode segments)

Notes:

- 1. During operation of the indicator, the values must not go beyond the specified maximum permissible values of the selected operating mode. Failure to do this can lead to failure of the indicator.
- 2. Operation at two or more maximum values of the selected operating mode is not permitted (except for the maximum allowed anode and grid voltages).
- 3. When calculating the values of the circuit, assume a load factor equal to 1.
- 4. Operation of the indicator is allowed at V_{filament}= 1,2V with a reduced guaranteed operating time of 3000 hours.

Connection Diagram of the Electrodes with leads





Lead Number	Electrode Name
1, 2, 3, 4, 5, 6, 10, 11	Anode Segments
9 7 8	Grid Cathode Cathode, conductive layer of the inner surface of the indicator
12	Non-Connected

Lead Number	Displayed Digit
1, 2, 4, 5, 6, 10	0
1, 10	1
1, 2, 3, 5, 6	2
1, 2, 3, 6, 10	3
1, 3, 4, 10	4
2, 3, 4, 6, 10	5
2, 3, 4, 5, 6, 10	6
1, 2, 10	7
1, 2, 3, 4, 5, 6, 10	8
1, 2, 3, 4, 6, 10	9
11	Dot

Notes:

- 1. Pin numbering is referred to the bottom view of the indicator
- 2. The number of the Anode Segment corresponds to the number of the pin
- 3. The reference point ("key") is the skipped or trimmed pin 12

Design data:

Maximum indicator height (without leads) - 42,5mm

Maximum indicator diameter - 13mm

Maximum indicator weight - 11g

Original datasheet provided by Dieter Waechter (aka The Tube Tester) at Dieter's Nixie Tube Data Archive

Translated by 64bittz

If you have some corrections or suggestions, contact the site owner

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