TRIODE

GS-35B

The GC-35B triode provides continuous-wave generation in external-feedback self-sustained oscillators and amplifiers at up to 1000 MHz, in circuits with a common point at grid.

GENERAL

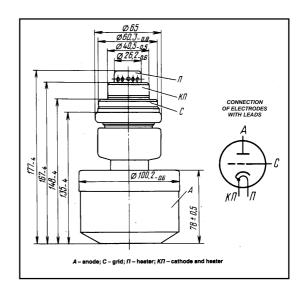
Cathode: indirectly heated, oxide-coated. Envelope: metal-ceramic. Cooling: forced air. Height: at most 177 mm. Diameter: at most 100.2 mm. Mass: at most 2.8 kg.

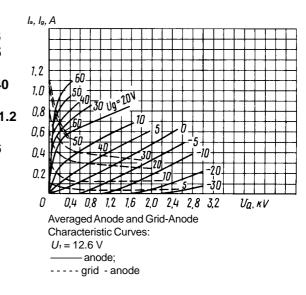
OPERATING ENVIRONMENTAL CONDITIONS

frequency range, Hz	50-200
acceleration, m/s ²	59
Multiple impacts with acceleration, m/s ²	343
Linear loads with acceleration, m/s ²	88
Lowest ambient temperature, °C	-60
Relative humidity at up to +40 °C, %	98

BASIC DATA ELECTRICAL PARAMETERS

Heater voltage, V Heater current, A Mutual conductance (at anode volta	2.65-3	12.6 3.25	
voltage change -1 V, anode current	0.4 A), mA/V	25-40	
Penetration factor (at anode voltage voltage change -200 V, anode curre Operating point (negative grid voltage	nt 0.4 A), %	0.8-1	
voltage 2.5 kV, anode current 0.4 A)	, V ·	12-6	
Interelectrode capacitance, pF:			
input 18-24			
output, at most 0.12			
transfer 3.8-5.0			
Warm up time, s, at most	9	90	
Output power, W:			
at anode voltage 2.5 kV, anode curr	ent		
0.7 A, wavelength 60 cm, at least	8	800	
at anode voltage 2.2 kV, anode current			
0.8 A, wavelength 30 cm, at least		350	
Output power over 500 h of service	(at anode		
voltage 2.5 kV, anode current 0.7 A,	•		
60 cm), W, at least	•	650	





LIMIT OPERATING VALUES

Heater voltage, V Anode voltage, kV:	11.9-13.3
DC	3
instantaneous value	6
Grid voltage, V	-400 to +120
Cathode current, A	1.4
Dissipation, W:	
anode	1.5-10 ³
grid	26
Temperature, °C:	
anode	200
grid and cathode leads	120

STANDARD OPERATING CONDITIONS

	Condition I	Condition II
Heater voltage, V	12.6	12.6
Anode voltage, kV	2.2	2.5
Anode current, A	0.8	0.7
Output power, W, at least	350	800
Wavelength, cm	30	60

