*Supplement to The Wireless & Electrical Trader, June 7, 1941*

"TRADER" SERVICE SHEET

522

# American 'GT' Valves

## CHARACTERISTICS (below); BASE CONNECTIONS (overleaf)

*(Information abstracted from recent issues of the American journal "Electronics")*

### 40Z5/45Z5GT, 45Z5GT
**IHC half-wave rectifier**

| | |
|---|---|
| Heater | 45V, 0·15A |
| Max. anode volts | 125, AC |
| Max. current | 100mA |

### 35Z5GT
**IHC half-wave rectifier**

| | |
|---|---|
| Heater | 35V, 0·15A |
| Max. anode volts | 125, AC |
| Max. current | 100mA |

### 25Y4GT
**IHC half-wave rectifier**

| | |
|---|---|
| Heater | 25V, 0·15A |
| Max. anode volts | 125, AC |
| Max. current | 75mA |

### 25Z4GT
**IHC half-wave rectifier**

| | |
|---|---|
| Heater | 25V, 0·3A |
| Max. anode volts | 125, AC |
| Max. current | 125mA |

### 35Z4GT
**IHC half-wave rectifier**

| | |
|---|---|
| Heater | 35V, 0·15A |
| Max. anode volts | 125, AC |
| Max. current | 100mA |

### 25Z6GT
**IHC voltage-doubling rectifier**

| | |
|---|---|
| Heater | 25V, 0·3A |
| Max. anode volts | 235, AC |
| Max. current | 75mA |

### 50Y6GT
**IHC voltage-doubling rectifier**

| | |
|---|---|
| Heater | 50V, 0·15A |
| Max. anode volts | 125, AC |
| Max. current | 85mA |

### 25L6GT
**IHC beam tetrode**

| | |
|---|---|
| Heater | 25V, 0·3A |
| Anode | 110V, 49mA |
| Screen | 110V, 4mA |
| Load impedance | 2,000 O |

### 35L6GT
**IHC beam tetrode**

| | |
|---|---|
| Heater | 35V, 0·15A |
| Anode | 110V, 40mA |
| Screen | 110V, 3mA |
| Load impedance | 2,500 O |

### 50L6GT
**IHC beam tetrode**

| | |
|---|---|
| Heater | 50V, 0·15A |
| Anode | 110V, 49mA |
| Screen | 110V, 4mA |
| Load impedance | 2,000 O |

### 70L7GT
**IHC beam tetrode and rectifier**

| | |
|---|---|
| Heater | 70V, 0·15A |
| *Tetrode section :* | |
| Load impedance | 2,000 O |
| *Rectifier section :* | |
| Max. anode volts | 125, AC |
| Max. current | 75mA |

### 32L7GT
**IHC pentode and rectifier**

| | |
|---|---|
| Heater | 32·5V, 0·3A |
| *Tetrode section :* | |
| Load impedance | 2,600 O |
| *Rectifier section :* | |
| Max. anode volts | 125, AC |
| Max. current | 60mA |

### 70A7GT
**IHC beam tetrode and rectifier**

| | |
|---|---|
| Heater | 70V, 0·15A |
| *Tetrode section :* | |
| Load impedance | 2,500 O |
| *Rectifier section :* | |
| Max. anode volts | 125, AC |
| Max. current | 60mA |

### 1A7GT
**DHC frequency changer**

| | |
|---|---|
| Heater | 1·4V, 0·05A |
| Pent. anode | 90V, 0·55mA |
| Pent. screen | 45V, 0·6mA |
| Osc. anode | 90V, 1·2mA |

### 1N5GT
**DHC RF pentode**

| | |
|---|---|
| Heater | 1·4V, 0·05A |
| Anode | 90V, 1·2mA |
| Screen | 90V, 0·3mA |
| Conductance | 0·75mA/V |
| Int. impedance | 1,500,000 O |

### 1C5GT
**DHC output pentode**

| | |
|---|---|
| Heater | 1·4V, 0·1A |
| Anode | 90V, 7·5mA |
| Screen | 90V, 1·6mA |
| Conductance | 1·55mA/V |
| Load impedance | 8,000 O |
| Power output | 0·24W |

### 3Q5GT
**DHC beam tetrode**

| | |
|---|---|
| Heater (CT) | 2·8V, 0·05A |
| or | 1·4V, 0·1A |
| Anode | 90V |
| Screen | 90V |
| Conductance | 2·1mA/V |
| Load resistance | 8,000 O |
| Power output | 0·27W |

### 1Q5GT
**DHC beam tetrode**

| | |
|---|---|
| Heater | 1.4V, 0.1A |
| Anode | 90V, 9·5mA |
| Screen | 90V, 1·6mA |
| Conductance | 2·1mA/V |
| Load impedance | 8,000 O |
| Power output | 0.27W |

### 1H5GT
**DHC diode-triode**

| | |
|---|---|
| Heater | 1·4V, 0·05A |
| Triode anode | 90V, 0·15mA |
| Conductance | 0·275mA/V |
| Int. impedance | 240,000 O |

### 25B8GT
**IHC RF pentode and triode**

| | |
|---|---|
| Heater | 25V, 0·15A |
| *Pentode section :* | |
| Conductance | 2mA/V |
| Int. impedance | 185,000 O |
| *Triode section :* | |
| Conductance | 1·5mA/V |
| Int. impedance | 75,000 O |

### 1B8GT
**DHC beam tetrode, triode and diode**

| | |
|---|---|
| Heater | 1.4V, 0.1A |
| *Tetrode section :* | |
| Anode | 90V, 6·3mA |
| Screen | 90V, 1·4mA |
| Conductance | 1·15mA/V |
| Load impedance | 14,000 O |
| Power output | 2.1W |
| *Triode section :* | |
| Anode | 90V, 0·15mA |
| Conductance | 0·175mA/V |
| Int. impedance | 240,000 O |

### 1D8GT
**DHC output pentode, triode and diode**

| | |
|---|---|
| Heater | 1·4V, 0·1A |
| *Pentode section :* | |
| Anode | 90V, 5·0mA |
| Screen | 90V |
| Load impedance | 12,000 O |
| *Triode section :* | |
| Anode | 90V, 1·1mA |
| Int. impedance | 43,500 O |

### 6SA7GT
**IHC frequency changer**

| | |
|---|---|
| Heater | 6.3V, 0·3A |
| Anode | 250V 3·4mA |
| Screen | 100V, 8mA |

### 12SA7GT
**IHC frequency changer**

| | |
|---|---|
| Heater | 12·6V, 0·15A |
| Anode | 250V, 3·4mA |
| Screen | 100V, 8mA |

### 6SJ7GT
**IHC RF pentode**

| | |
|---|---|
| Heater | 6.3V, 0·3A |
| Anode | 250V, 3·0mA |
| Screen | 100V |
| Conductance | 1·65mA/V |
| Int. impedance | 1,500,000 O |

### 12SJ7GT
**IHC RF pentode**

| | |
|---|---|
| Heater | 12·6V, 0·15A |
| Anode | 250V, 0·3mA |
| Screen | 100V |
| Conductance | 1·65mA/V |
| Int. impedance | 1,500,000 O |

### 6SK7GT
**IHC variable-mu RF pentode**

| | |
|---|---|
| Heater | 6.3V, 0·3A |
| Anode | 250V, 9·2mA |
| Screen | 100V |
| Conductance | 1·65mA/V |
| Int. impedance | 1,500,000 O |

### 12SK7GT
**IHC variable-mu RF pentode**

| | |
|---|---|
| Heater | 12·6V, 0·15A |
| Anode | 250V, 9·2mA |
| Screen | 100V, 2·4mA |
| Conductance | 2mA/V |
| Int. impedance | 800,000 O |

### 6SQ7GT
**IHC double diode triode**

| | |
|---|---|
| Heater | 6·3V, 0·3A |
| Triode anode | 250V, 0·8mA |
| Conductance | 1·1mA/V |
| Int. impedance | 91,000 O |

### 12SQ7GT
**IHC double diode triode**

| | |
|---|---|
| Heater | 12·6V, 0·15A |
| Triode anode | 250V, 0·8mA |
| Conductance | 1·1mA/V |
| Int. impedance | 91,000 O |

### 6SF5GT
**IHC triode**

| | |
|---|---|
| Heater | 6.3V, 0·3A |
| Anode | 250V, 0·9mA |
| Conductance | 1·5mA/V |
| Int. impedance | 66,000 O |

### 12SF5GT
**IHC triode**

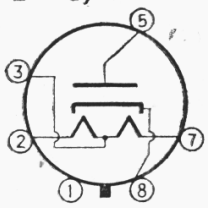
| | |
|---|---|
| Heater | 12·6V, 0·15A |
| Anode | 250V, 0·9mA |
| Conductance | 1·5mA/V |
| Int. impedance | 66,000 O |

*Supplement to The Wireless & Electrical Trader, June 7, 1941*

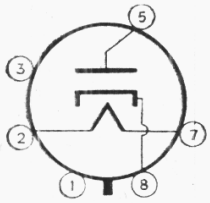


## SELECTED AMERICAN 'GT' VALVES — ELECTRODE AND BASE CONNECTIONS

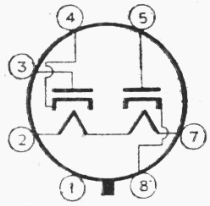
**35Z5GT, 45Z5GT, 40Z5/45Z5GT**



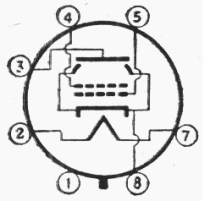
**25Y4GT, 25Z4GT, 35Z4GT**



**25Z6GT, 50Y6GT**

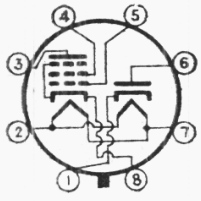


**25L6GT, 35L6GT, 50L6GT**

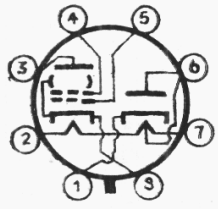


**70L7GT**

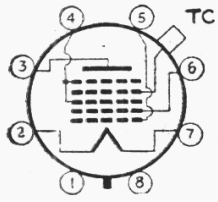
**32L7GT**



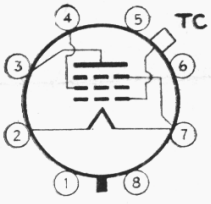
**70A7GT**



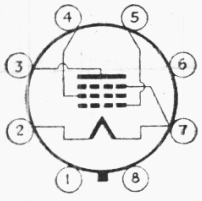
**1A7GT**



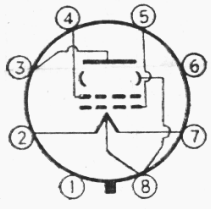

**1N5GT**



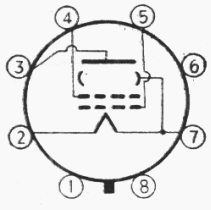

**1C5GT**



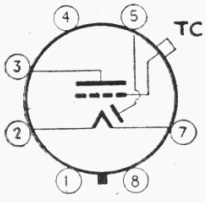
**3Q5GT**



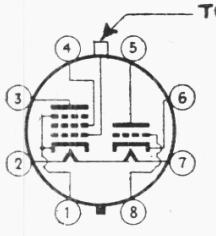
**1Q5GT**



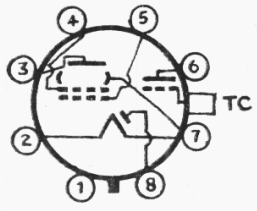
**1H5GT**



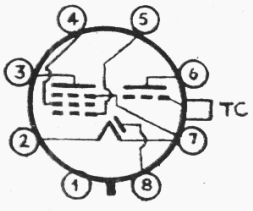

**25B8GT**



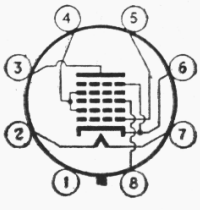

**1B8GT**



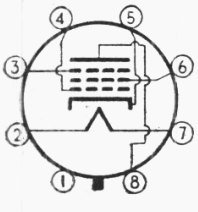

**1D8GT**



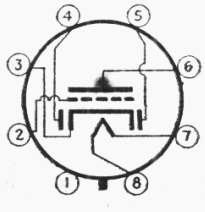

**6SA7GT, 12SA7GT**



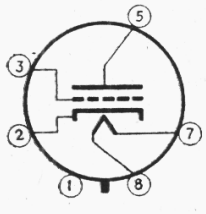
**6SJ7GT, 12SJ7GT, 6SK7GT, 12SK7GT**



**6SQ7GT, 12SQ7GT**



**6SF5GT, 12SF5GT**



NOTE.—*All bases are of the American octal type. Blank pins are shown, but with no connection to them. Where a pin is missing it is omitted from the diagram. Main characteristics for the valves are given overleaf. The types shown are those chiefly used in this country.*

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