# GZ34

## DOUBLE ANODE RECTIFYING TUBE

Double anode high vacuum rectifying tube.

| QUICK REFERENCE DATA | | | |
|---|---|---|---|
| Transformer voltage | $V_{tr}$ | 2x450 | $V_{RMS}$ |
| D.C. current | $I_o$ | 250 | mA |

**HEATING**: Indirect by A.C.; parallel supply

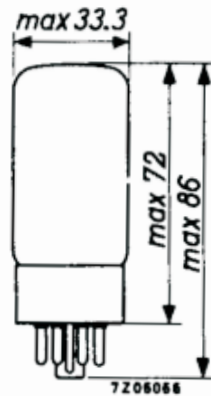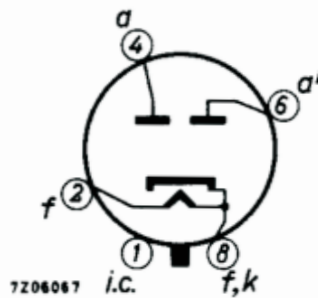| | | |
|---|---|---|
| Heater voltage | $V_f$ | 5 V |
| Heater current | $I_f$ | 1.9 A |

**DIMENSIONS AND CONNECTIONS**                    Dimensions in mm

Base: Octal

## OPERATING CHARACTERISTICS

### As two-phase half-wave rectifier with capacitor input

| | | | | | |
|---|---|---|---|---|---|
| Transformer voltage | $V_{tr}$ | 2x300 | 2x350 | 2x400 | $V_{RMS}$ |
| D.C. output voltage | $V_o$ | 330 | 380 | 430 | V |
| D.C. current | $I_o$ | 250 | 250 | 250 | mA |
| Protecting resistance | $R_t$ | 2x75 | 2x100 | 2x125 | $\Omega$ |
| Input capacitor of smoothing filter | $C_{filt}$ | 60 | 60 | 60 | $\mu F$ |
| Transformer voltage | $V_{tr}$ | 2x450 | 2x500 | 2x550 | $V_{RMS}$ |
| D.C. output voltage | $V_o$ | 480 | 560 | 640 | V |
| D.C. current | $I_o$ | 250 | 200 | 160 | mA |
| Protecting resistance | $R_t$ | 2x150 | 2x175 | 2x200 | $\Omega$ |
| Input capacitor of smoothing filter | $C_{filt}$ | 60 | 60 | 60 | $\mu F$ |

### As two-phase half-wave rectifier with choke input

| | | | | | |
|---|---|---|---|---|---|
| Transformer voltage | $V_{tr}$ | 2x300 | 2x350 | 2x400 | $V_{RMS}$ |
| D.C. output voltage | $V_o$ | 250 | 290 | 330 | V |
| D.C. current | $I_o$ | 250 | 250 | 250 | mA |
| Protecting resistor | $R_t$ | 0 | 0 | 0 | $\Omega$ |
| Choke | L | 10 | 10 | 10 | H |
| Transformer voltage | $V_{tr}$ | 2x450 | 2x500 | 2x550 | $V_{RMS}$ |
| D.C. output voltage | $V_o$ | 375 | 420 | 465 | V |
| D.C. current | $I_o$ | 250 | 250 | 225 | mA |
| Protecting resistor | $R_t$ | 0 | 0 | 0 | $\Omega$ |
| Choke | L | 10 | 10 | 10 | H |

**LIMITING VALUES** (Design centre rating system)
See also page 4

Capacitor input

| | | |
|---|---|---|
| Anode voltage, peak inverse | $V_{a\,inv_p}$ | max. 1500 V |
| D.C. current | $I_o$ | max. See page 4 |
| Anode peak current | $I_{a_p}$ | max. 750 mA |
| Input capacitor of smoothing filter | $C_{filt}$ | max. 60 $\mu$F |

| Protecting resistance at transformer | $R_{t\,min.}$ | 2x50 | 2x75 | 2x100 | 2x125 | 2x150 | 2x175 | $\Omega$ |
|---|---|---|---|---|---|---|---|---|
| voltage | $V_{tr}$ | 2x300 | 2x350 | 2x400 | 2x450 | 2x500 | 2x550 | $V_{RMS}$ |

Choke input

| | | |
|---|---|---|
| Anode voltage, peak inverse | $V_{a\,inv_p}$ | max. 1500 V |
| D.C. current | $I_o$ | max. See page 4 |
| Anode peak current | $I_{a_p}$ | max. 750 mA |

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Hatched area: for choke input filter only