

GL1551A Specification

Anode Parameter

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|--------------------------------|---|
| Peak forward anode voltage: | 33kV |
| Peak inverse anode voltage: | 25 kV |
| Peak anode current: | 1000A |
| Peak anode current: | 2000A (Pulse repetition rate 60pps Max) |
| Average anode current: | 1.25A |
| Rate of rise of anode current: | 5000A/ μ s |
| Plate breakdown factor: | 14×10^9 VApps |
| Maximum pulse power: | 16.5MW |

Grid 2 drive

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|--------------------------------------|---------------------------|
| Unloaded grid 2 drive pulse voltage: | 300V~1000V |
| Grid 2 pulse duration: | 1 μ s (min) |
| Rate of rise of grid 2 pulse: | 1kV/ μ s (min) |
| Grid 2 pulse delay: | 0.5 μ s~3 μ s |
| Peak inverse grid 2 voltage: | 450V(max) |
| Loaded grid 2 bias voltage: | -50V~-150V |
| Forward impedance of grid 2 circuit: | 50 Ω ~800 Ω |

Grid 1 Pulse drive

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|------------------------------------|-------------------|
| Unload grid 1 drive pulse voltage: | 300V~1000 V |
| Grid 1 pulse duration: | 2 μ s(min) |
| Rate of rise of grid 1 pulse: | 1kV/ μ s(min) |
| Peak inverse grid 1 voltage: | 450V (max) |
| Drive current: | 0.3A~1A |

Grid 1 DC drive

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|--------------------------------------|------------|
| DC grid 1 unloaded priming voltage : | 75V~150 V |
| DC grid 1 priming current: | 50mA~100mA |

Heater

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|----------------------|-------------------|
| Heater voltage: | 6.3V \pm 5%V ac |
| Heater current: | 22 A \pm 1A |
| Minimum heater time: | 5min |

Mechanical

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|--------------------|----------------------------|
| Mounting position: | see notes 1 |
| Dimension: | See outline |
| Cooling way: | Forced-air (see notes 2、3) |

Cross reference

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| E2V: | CX1159 |
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Notes:

1. The tube must be fitted by means of cathode mounting flange.
2. The cathode end of the tube must be cooled whenever heater voltages are applied.
3. The temperature of the envelope must not exceed the value specified below.

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|---------------------------------------|----------------------|
| Ceramic, anode and grids..... | 150 $^{\circ}$ C max |
| Cathode mounting flange and base..... | 120 $^{\circ}$ C max |

