

## GL1551A Specification

### Anode Parameter

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/μs
Plate breakdown factor:	14×10 <sup>9</sup> VApps
Maximum pulse power:	16.5MW

### Grid 2 drive

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

### Grid 1 Pulse drive

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

### Grid 1 DC drive

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

### Heater

Heater voltage:	6.3V±5%V ac
Heater current:	22 A ±1A
Minimum heater time:	5min

### Mechanical

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

### Cross reference

E2V:	CX1159
------	--------

### 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.

Ceramic, anode and grids.....150°C max

Cathode mounting flange and base.....120°C max

