The 6538 is a cold cathode inert gas-filled tube with priming discharge. Primarily intended for use in low current stabilizer circuits and also suitable for use in timers and protection equipment.

**PHYSICAL SPECIFICATIONS**

- Base: Noval 9 pin
- Bulb: Glass
- Maximum overall length: 1 25/32" (45 mm.)
- Maximum bulb diameter: 7/8" (22.2 mm.)
- Basing designation: 9EA

**BASING CONNECTIONS**

- Pin 1: Auxiliary cathode
- Pin 2: Plate
- Pin 3: Internal connection
- Pin 4: Auxiliary cathode
- Pin 5: Trigger
- Pin 6: Cathode
- Pin 7: Cathode
- Pin 8: Cathode
- Pin 9: Trigger

**CHARACTERISTICS AND RATINGS** (Absolute values unless otherwise specified).

- Minimum plate to cathode breakdown voltage: 285 volts
- Maximum mean cathode current: 2.5 mamps
- Maximum peak cathode current: 10 mamps
- Maximum auxiliary cathode current: 10 u amps
- Nominal maintaining voltage at 2 mamps: 110 volts
- Trigger voltage for strike: 141 to 151 volts

* Vt = 100 volts, Iaux = 2 to 4 microamps
** Averaged over any interval of 15 secs.
† The cathode current can be divided in any way between trigger and plate.
‡‡Va = 260 volts trigger resistance = 68 MΩ

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