1J3A

The CBS type 1J3A is a half-wave rectifier for cathode-ray tube anode supplies. It has a higher peak inverse plate voltage rating and higher d-c plate voltage rating than type 1J3. The 1J3A will directly replace the 1J3.

MECHANICAL DATA

Cathode, filament
Bulb
Maximum overall height
Maximum seated height
Base, JEDEC
Basing, JEDEC
Top Cap, JEDEC
Mounting position

Pin 1: Internal connection
Pin 2: Filament
Pin 3: Internal connection
Pin 4: Internal connection
Pin 5: Internal connection
Pin 6: Internal connection
Pin 7: Filament and internal shield
Pin 8: Internal connection
Cap: Plate

ELECTRICAL DATA

FILAMENT CHARACTERISTICS

Voltage, a-c†
Current

1.25 volts
0.2 amp

† Filament voltage must not exceed 1.45 volts or be less than 1.05 volts.

from JEDEC release #2830, June 6, 1960
DIRECT INTERELECTRODE CAPACITANCES

Plate to filament, approx.: p to f + i.s. 1.6 μf

MAXIMUM RATINGS (Design maximum values)

Flyback Rectifier Service†

Plate voltage, peak inverse
  Total d-c and peak 28 kv
  D-c 24 kv
  Output current, d-c 0.5 ma
  Plate current, peak steady state 50 ma

CHARACTERISTICS

Tube voltage drop, conducting 7 ma 225 volts

NOTES:

† Voltage pulse duration must not exceed 10μs in a 30-frame, 525-line system.

* Socket terminals 1, 3, 5 and 8 may be connected to pin 7 or its corona shield. Terminals 4 and 6 may be used as tie points for components at or near filament potential.

WARNING

This tube may produce soft X-rays which constitute a health hazard. Proper shielding in equipment design will prevent this danger.