



# technical information

**CBS ELECTRONICS**

*A Division of Columbia Broadcasting System, Inc.  
Danvers, Massachusetts*

## 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	T-9
Maximum overall height	4.0625 inches
Maximum seated height	3.5 inches
Base, JEDEC	B6-8, B6-60
Basing, JEDEC	3C
Top Cap, JEDEC	C1-34
Mounting position	any

### PIN CONNECTIONS

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

### ELECTRICAL DATA

#### FILAMENT CHARACTERISTICS

Voltage, a-c†	1.25	volts
Current	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  $\mu\mu\text{f}$

## 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  $10\mu\text{s}$  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.