

SPECIFICATION

This specification lists the electrical performance limits and physical requirements of the 7CT1N. A procedure for checking the electrical performance limits is given in the Performance Check/Adjust section.

Collector-Drain Supply

Polarity: + or —.

Voltage Ranges: (No Load)

0 V to 7.5 V.

0 V to 30 V.

0 V to 75 V.

0 V to 300 V.

Maximum Voltage Limit: Within 20%

Peak Current: (Short Circuit)

240 mA in 7.5 V range.

60 mA in 30 V range.

24 mA in 75 V range.

6 mA in 300 V range.

Peak Current Limit: Within 30%

Base-Gate Step Generator

Step Polarity: Positive-going or negative-going

Number of Steps: From 0 to at least 10.

Step Accuracy:

Absolute: (Eighth step) within 5%.

Incremental: Within 3%

Zero Step Level: Within 0.3 step.

Step Offset:

Aiding: At least 5 steps (or 13 V total step generator output for voltage steps).

Opposing: At least 5 steps.

Display Amplifiers

Vertical:

Ranges: Normal and Leakage.

Accuracy: Within 5% + 0.2 nA/V.

Horizontal Accuracy: Within 5%.

Positioning Accuracy: Within 3% using NPN, N CH - PNP, P CH pushbutton.

General

Temperature:

Operating: 0° C to +50° C.

Storage: —40° C to +70° C.

Altitude:

Operating: To 15,000 feet.

Storage: To 50,000 feet.

Vibration Range: To 0.015 inch total displacement at 50 Hz.

Shock Range: 30 g's, 1/2 sine, 11 ms duration.

Transportation: Qualified under National Safe Transit Committee Test Procedure 1A, Category II.

Standard Accessories:

1 Instruction Manual 070-1247-00

1 Transistor, FET Adapter, TO-5 and TO-18.