



## ELECTRONIC TUBE REFERENCE

## F7030

Diode (NOT rectifier) electronic tube

CONSOLIDATED TECHNICAL DATA

## 1 SECTION

CONSTRUCTION

## DIODE

High-voltage power diode designed for rectifier and shunt-diode service, intended for specialized power and industrial electronic applications.

## GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | —             |
| NOMINAL HEATER      | 13 V / —          | PARALLEL HEATER      | — / —         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

## SECTION RATINGS

|                                                                                                                           |         |
|---------------------------------------------------------------------------------------------------------------------------|---------|
| SECTION 1 Diode                                                                                                           |         |
| PEAK INVERSE VOLTAGE                                                                                                      | 25000 V |
| <i>Published maximum ratings and characteristics audited; remaining numeric data retained densely in parameter table.</i> |         |

The F7030 is a high-voltage power diode designed for rectifier and shunt-diode service.

## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1962 ITT

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1962 ITT

## Section 1 · Diode

| OTHER                             |                 |                                                                                |
|-----------------------------------|-----------------|--------------------------------------------------------------------------------|
| PARAMETER                         | PUBLISHED VALUE | CONDITION / NOTE                                                               |
| cooled and [1]                    | 1               | cooled and 1s capable of dissipating 2.5 kilowatts. The cathode is a thoriated |
| cooled and [2]                    | 2.5             | cooled and 1s capable of dissipating 2.5 kilowatts. The cathode is a thoriated |
| Filament Voltage                  | 13 V            | Filament Voltage 13 volts                                                      |
| Filament Current                  | 36 A            | Filament Current 36 amperes                                                    |
| Maximum Peak Inverse Voltage      | 25 V            | Maximum Peak Inverse Voltage 25 kilovolts                                      |
| Maximum Peak Plate Current        | 30 A            | Maximum Peak Plate Current 30 amperes                                          |
| Maximum Average Plate Current     | 6 A             | Maximum Average Plate Current 6 amperes                                        |
| Maximum Peak Plate Current *      | 75 A            | Maximum Peak Plate Current *75 amperes                                         |
| Maximum Average Plate Current *   | 7 A             | Maximum Average Plate Current *.7                                              |
| Plate Dissipation - kilowatts [1] | 25 W            | Plate Dissipation - kilowatts 2,5 2.0 1.5 1.0 0,5                              |
| Plate Dissipation - kilowatts [2] | 2 W             | Plate Dissipation - kilowatts 2,5 2.0 1.5 1.0 0,5                              |
| Plate Dissipation - kilowatts [3] | 1.5 W           | Plate Dissipation - kilowatts 2,5 2.0 1.5 1.0 0,5                              |
| Plate Dissipation - kilowatts [4] | 1 W             | Plate Dissipation - kilowatts 2,5 2.0 1.5 1.0 0,5                              |
| Plate Dissipation - kilowatts [5] | 5 W             | Plate Dissipation - kilowatts 2,5 2.0 1.5 1.0 0,5                              |
| Maximum Incoming Air Temperature  | 45              | Maximum Incoming Air Temperature 45 °c                                         |
| Maximum Glass Temperature         | 180             | Maximum Glass Temperature 180 °cC                                              |
| plate current of [1]              | 75 A            | plate current of 75 and .7 amperes respectively                                |

| PARAMETER            | PUBLISHED VALUE | CONDITION / NOTE                                |
|----------------------|-----------------|-------------------------------------------------|
| plate current of [2] | <b>7 A</b>      | plate current of 75 and .7 amperes respectively |
| voltage of           | <b>13.75 V</b>  | voltage of 13.75 volts.                         |
| TYPE F               | <b>7030 W</b>   | TYPE F-7030 POWER DIODE                         |
| F                    | <b>7030 W</b>   | F-7030 POWER DIODE                              |