



1V2 DIODE

FOR TV HIGH-VOLTAGE RECTIFIER APPLICATIONS

DESCRIPTION AND RATING

The 1V2 is a miniature filamentary diode designed for use in television receivers as the high-voltage rectifier in flyback types of power supplies.

GENERAL

ELECTRICAL

Cathode—Coated Filament	
Filament Voltage, AC or DC	0.625* Volts
Filament Current	0.3 Amperes
Direct Interelectrode Capacitances, approximate †	
Plate to Filament	0.8 $\mu\mu\text{f}$

MECHANICAL

Mounting Position—Any
Envelope—T-6½, Glass
Base—E9-1, Small Button 9-Pin

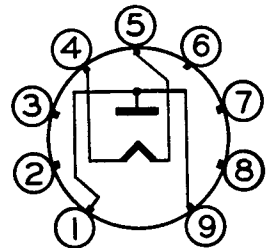
MAXIMUM RATINGS

FLYBACK RECTIFIER SERVICE§

DESIGN-CENTER VALUES UNLESS OTHERWISE INDICATED

Peak Inverse Plate Voltage	
DC Component	6600 Volts
Total DC and Peak	8250 Volts
Steady-State Peak Plate Current	10 Milliamperes
DC Output Current	0.5 Milliamperes

BASING DIAGRAM



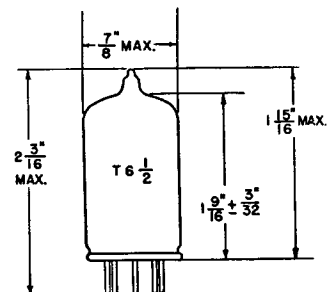
RETMA 9U

TERMINAL CONNECTIONS

- Pin 1—Plate
- Pin 2—Internal Connection—Do Not Use
- Pin 3—Internal Connection—Do Not Use
- Pin 4—Filament
- Pin 5—Filament
- Pin 6—No Connection †
- Pin 7—Internal Connection—Do Not Use
- Pin 8—Internal Connection—Do Not Use
- Pin 9—Plate

† Socket terminal 6 may be used as tie point for filament dropping resistor or for components at or near filament potential; otherwise, do not use.

PHYSICAL DIMENSIONS



RETMA 6-2



Supersedes ET-T729, dated 7-50

AVERAGE CHARACTERISTICS

Tube Voltage Drop, approximate

$I_b = 7.0$ Milliamperes DC 135 Volts

* Under no circumstances should the filament voltage be less than 0.525 volts or more than 0.725 volts.

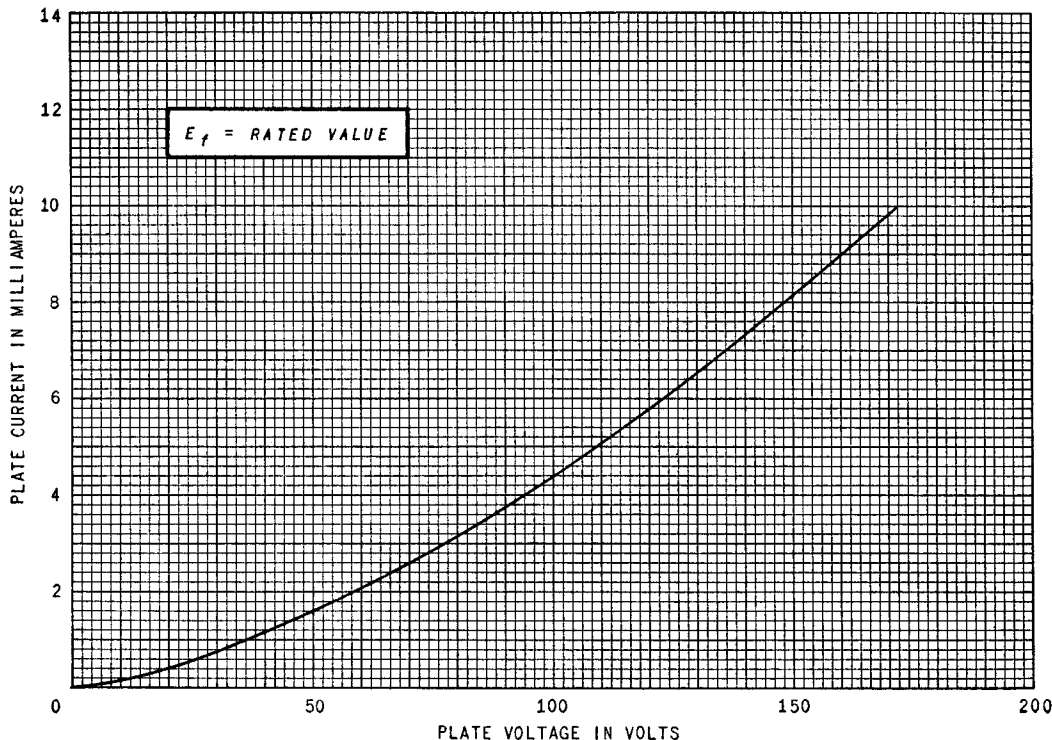
† Without external shield.

§ For operation in a 525-line, 30-frame television system as described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission. The duty cycle of the voltage pulse must not exceed 15 percent of one scanning cycle.

◆ Value given is to be considered as an Absolute Maximum Rating. In this case, the combined effect of supply voltage variation, manufacturing variation including components in the equipment, and adjustment of equipment controls should not cause the rated value to be exceeded.

Note: To provide the required insulation in noval 9-pin sockets designed with a cylindrical center shield, it is necessary to remove the center shield.

AVERAGE PLATE CHARACTERISTICS



ELECTRONIC COMPONENTS DIVISION
GENERAL  **ELECTRIC**
Schenectady 5, N. Y.