6BJ7
TRIPLE DIODE
FOR TV DC-RESTORER APPLICATIONS

DESCRIPTION AND RATING

The 6BJ7 is a miniature, triple diode primarily intended for use as a d-c restorer in each of the three signal channels of color television receivers. For flexibility in circuit design, each diode incorporates a separate cathode. The electrical characteristics of each section of the 6BJ7 are similar to those of each section of the 6AL5.

GENERAL

ELECTRICAL
Cathode—Coated Unipotential
Heater Voltage, AC or DC .................................. 6.3 Volts
Heater Current ............................................ 0.45 Amperes
Direct Interelectode Capacitances*
Plate-Number 1 to Cathode-Number 1, Heater,
and Internal Shield ........................................ 3.0 μF
Plate-Number 2 to Cathode-Number 2, Heater,
and Internal Shield ........................................ 2.6 μF
Plate-Number 3 to Cathode-Number 3, Heater,
and Internal Shield ........................................ 2.6 μF
Cathode-Number 1 to Plate-Number 1, Heater
and Internal Shield ........................................ 4.0 μF
Cathode-Number 2 to Plate-Number 2, Heater,
and Internal Shield ........................................ 3.8 μF
Cathode-Number 3 to Plate-Number 3, Heater,
and Internal Shield ........................................ 4.0 μF
Plate-Number 1 to Plate-Number 2 .................... 0.055 μF
Plate-Number 2 to Plate-Number 3 .................... 0.036 μF
Plate-Number 3 to Plate-Number 1 .................... 0.036 μF

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

MAXIMUM RATINGS

TV DC-RESTORER SERVICE

DESIGN-CENTER VALUES
Peak Inverse Plate Voltage ............................... 330 Volts
Peak Plate Current per Plate ............................ 10 Milliamperes
DC Output Current per Plate ........................... 1.0 Milliamperes
Heater-Cathode Voltage
Heater Positive with Respect to Cathode .............. 100 Volts
Heater Negative with Respect to Cathode ............ 330 Volts
AVERAGE CHARACTERISTICS

Tube Voltage Drop, Each Section
\[ I_b = 10 \text{ Milliamperes DC} \] \[ 2.7 \text{ Volts} \]

* Without external shield.

AVERAGE PLATE CHARACTERISTICS

\[ E_f = \text{RATED VALUE} \]

PLATE VOLTAGE IN VOLTS

PLATE CURRENT IN MILLIAMPERES

ELECTRONIC COMPONENTS DIVISION

GENERAL ELECTRIC

Schenectady 5, N. Y.