

MAZDA

6.D.1

TELEVISION SINGLE DIODE
Indirectly heated - for parallel operation**RATING**

Heater Voltage (volts)	V_h	6.3
Heater Current (amps)	I_h	0.15
Maximum Mean Anode Current (mA)	$I_a(av)max$	5
Maximum Peak Anode Current (mA)	$i_a(pk)max$	50
Maximum Peak Inverse Anode Voltage (volts)	P.I.V.(max)	350
Maximum Potential Heater/Cathode (volts DC)	$V_{h-k}(max)$	150

INTER-ELECTRODE CAPACITANCES

Anode/Cathode (μF)	C_{a-k}	1.6
Anode/Heater (μF)	C_{a-h}	0.45
Cathode/Heater (μF)	C_{k-h}	3.0

The hot Anode/Cathode capacitance increases by 0.1 μF .

The hot Cathode/Heater capacitance increases by 0.2 μF .

DIMENSIONS

Maximum Overall Length (mm)	51
Maximum Diameter (mm)	11
Maximum Seated Height (mm)	44.5
Approximate Nett Weight (ozs)	$\frac{1}{4}$
Approximate Packed Weight (ozs)	$\frac{1}{2}$

MOUNTING POSITION - Unrestricted

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TYPICAL OPERATIONVision Signal Detector-Half Wave

Using a shunt peaking circuit with
2 Mc/s pass-band followed by Video
Stage.

Total Load (R) (ohms) 4800

Compensating Inductance (L) (μ H) 180

Total Capacitance across Load (C) (μ F) 20

With recommended RC = 95,000 (ohms x μ F).

$$\text{and } \frac{L}{CR^2} = 0.4 \times 10^{-6}$$

D.C. Restoring in Cathode Ray Tube

Load Resistance (megohms) 0.5

Coupling Condenser (μ F) 0.01

BULB Clear

BASE B.3.G.

