

I.D.13

MAZDA

I.D.13

BATTERY R.F. DIODE

Indirectly heated

RATING

Heater Voltage (volts)	V_h	1.4
Heater Current (amps)	I_h	0.15
Maximum Anode Voltage (RMS).	$V_a(max)$	130
Maximum Peak Inverse Voltage (volts)	P.I.V.(max)	365
Maximum Peak Anode Current (mA)	$I_a(pk)max$	5.0
Maximum Mean Anode Current (mA)	$I_a(av)max$	0.5
Maximum Potential Heater/Cathode (volts D.C.)	$V_{h-k(max)}$	100

INTER-ELECTRODE CAPACITANCES *

Anode/Cathode ($\mu\mu F$)	C_{a-k}	0.6
Anode/Heater ($\mu\mu F$)	C_{a-h}	1.05
Heater/Cathode ($\mu\mu F$)	C_{k-h}	0.7

* With no external shield.

DIMENSIONS

Maximum Overall Length (mm)	54
Maximum Diameter (mm)	19

MOUNTING POSITION - Unrestricted.

NOTE The Resonant frequency of this valve is approximately 1,000 Mc/s. with no external shield.

MAZDA

I.D.13

BATTERY R.F. DIODE
Indirectly heated

TYPICAL OPERATION (with Condenser Input Filter)

Anode Voltage (volts R.M.S)	117
Filter Input Condenser (μ F)	2.0
Minimum Total Effective Anode/Supply Impedance (ohms)	0

BULB ClearBASE B.7.G.

Viewed from free end of pins.

CONNEXIONS

Pin 1	Heater	h
Pin 2	Anode	a
Pin 3	Cathode	k
Pin 4	-	-
Pin 5	Internal Connexion	• 1.c
Pin 6	Anode	a
Pin 7	Heater	h

• This pin must be left free.

I.D.13

MAZDA

I.D.13

BATTERY R.F. DIODE

Indirectly heated

AVERAGE CHARACTERISTIC CURVE

