

MAZDA

19.H.5

HIGH VACUUM DIODE

Indirectly heated—for Voltage Damping and Power Rectification

RATING †

Heater Voltage (volts)	Vh ‡	4.0
Heater Current (amps)	Ih	4.0
Maximum Anode Dissipation (watts)	Pa(max)	32

As damping Diode

Maximum Anode Current pulsing - 2 microseconds maximum (amps)	Ia(max)pulse	10
Maximum Peak Inverse Voltage short pulse rating or transients (kV)	P.I.V (max)	27
Maximum Peak Inverse Voltage short pulse rating or transients (Fault Condition) (kV)		35
Approximate Impedance at 8 amps Peak (ohms)	ra	100

As power Rectifier or Charging Diode

Maximum Mean Anode Current - at 4:1 Peak/Mean (choke filter) (mA)	Ia(max)av	180
Maximum Mean Anode Current - at 8:1 Peak/Mean (capacity filter) (mA)	Ia(max)av	125
Maximum R.M.S. Anode current (mA)	Ia(max)r.m.s.	350
Maximum Peak Inverse Voltage - No load (kV)	P.I.V.(max)o	20
Maximum Peak Inverse Voltage - On Load (kV)	P.I.V.(max)	18
Maximum Peak Inverse Voltage (Fault Condition) 5 seconds duration (kV)	P.I.V.(max)Fault	30

This valve is a very low impedance diode intended for use as a charging and damping diode in radar applications. It can also be used as a Power Rectifier at mains frequencies.

‡ The Heater must be switched on for 30 seconds before the Anode Voltage is applied

§ For a maximum period of 50 milliseconds

¶ All Maximum ratings are absolute values not design centres

DIMENSIONS

Maximum Overall Length (mm)	230
Maximum Diameter (mm)	62
Approximate Nett Weight (ozs)	7
Approximate Packed Weight (ozs)	18

MOUNTING POSITION - Unrestricted

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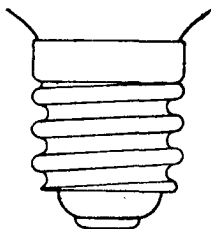
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BULB Clear

BASE Goliath Ediswan Screw Cap



CONNEXIONS

Contact 1	Heater	h
Contact 2	Heater	h
Top Cap	Anode	a

NOTE

The Heater is connected internally to cathode