EDISWAN
MAZDA
19.H.5
HIGH VACUUM DIODE
Indirectly heated—for Voltage Damping and Power Rectification

19H5

RATING ϕ

Heater Voltage (volts)	V_h ‡	4.0
Heater Current (amps)	I_h	4.0
Maximum Anode Dissipation (watts)	$P_{a(max)}$	32

As damping Diode

Maximum Anode Current pulsing - 2 microseconds maximum (amps)	$I_{a(max)pulse}$	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)	r_a	100

As power Rectifier or Delay line Charging Diode

Maximum Mean Anode Current - at 4:1 Peak/Mean (choke filter) (mA)	$I_{a(max)av}$	180
Maximum Mean Anode Current - at 8:1 Peak/Mean (capacity filter) (mA)	$I_{a(max)av}$	≠125
Maximum R.M.S. Anode Current (mA)	$I_{a(max)r.m.s.}$	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.

ϕ All Maximum ratings are absolute values not design centres.

≠ When used with a capacity input filter, the effective resistance in the anode circuit should not be less than 1600 ohms. ←

DIMENSIONS

Maximum Overall Length (mm)	240 ←
Maximum Diameter (mm)	57 ←
Approximate Nett Weight (ozs)	7
Approximate Packed Weight (ozs)	18

MOUNTING POSITION - Unrestricted

Indicates a change ←

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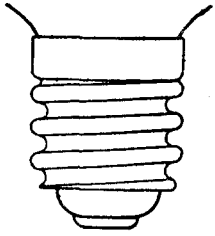
BULB Clear

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