

# EDISWAN

## 19E2

### HIGH VACUUM DIODE

Indirectly heated—for pulse operation

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19E2

#### GENERAL

The 19E2 is intended for use as a damping diode to prevent voltage overswings.

#### RATING

Heater Voltage (volts)	$V_h$	4.0
Heater Current (amps)	$I_h$	2.0 ←
Short Pulse Maximum Peak Inverse Voltage (kV)	PIV(max)	4.0†
Fault Pulse Maximum Peak Inverse Voltage (kV)	PIV(max)	5.5†§
Maximum Peak Anode Current (amps)	$I_a(pk)$ max	12
Maximum Anode Dissipation (watts)	$P_a(max)$	5.0
Maximum Bulb Temperature (°C)	$T_{bulb(max)}$	150

§ For maximum period of 50 m/sec.

† Pulse length 1 microsecond and repetition rate 1,200 pulses per second.

All Maximum Ratings are Absolute Values, not Design Centres.

#### DIMENSIONS

Maximum Overall Length	(mm)	100
Maximum Diameter	(mm)	33 ←
Maximum Seated Height	(mm)	87
Approximate Nett Weight	(ozs)	1½
Approximate Packed Weight	(ozs)	3¾

#### MOUNTING POSITION—Vertical

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Indicates a change ←

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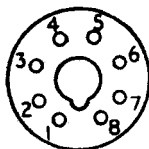
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TYPICAL OPERATION

Peak Anode Current (amps)	$I_a(pk)$	10.0	←
Anode Dissipation (watts)	$P_a$	3.5	
Approximate D.C. Resistance at 10 amps peak current (ohms)		39.0	←

BULB—ClearTOP CAP—CT2BASE—International Octal (I08)

Viewed from free end of pins.

CONNECTIONS

Pin 1	No Connection	NC
Pin 2	Heater	h
Pin 3	No Connection	NC
Pin 4	No Connection	NC
Pin 5	No Connection	NC
Pin 6	No Connection	NC
Pin 7	Heater	h
Pin 8	No Connection	NC
Top Cap	Anode	a

Note.—The heater must be switched on for 30 seconds before the anode voltage is applied.

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