

EDISWAN

19E2

HIGH VACUUM DIODE

Indirectly heated—for pulse operation

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)	$I_a(pk) \text{ max}$	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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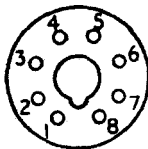
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SIEMENS EDISON SWAN LIMITED

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EDISWAN**19E2****HIGH VACUUM DIODE****Indirectly heated—for pulse operation****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—Clear**TOP CAP—CT2** ←**BASE—International Octal (108)**

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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