MAZDA
19.E.2
HIGH VACUUM DIODE
Indirectly heated – for pulse operation

RATING:

Heater Voltage (volts) \( V_h \) 4.0
Heater Current (amps) \( I_h \) 2.1
Short pulse maximum peak inverse voltage (\( K_v \)) \( \dagger P.I.V. \) 4.0
Fault pulse maximum peak inverse voltage (\( K_v \)) \( \ddagger P.I.V. \) 5.5
Maximum Peak Anode Current (amps) \( I_a(pk) \) 12
Maximum Anode Dissipation (watts) \( P_a \) 5.0
Maximum Bulb Temperature (C°) \( \) 150

\( \ddagger \) For maximum period of 50 m/sec.

\( \dagger \) Pulse length 1 microsec and repetition rate 1,200 per second.

\( \ddagger \) All maximum ratings are absolute values, not design centres.

DIMENSIONS

Maximum Overall Length (mm) 100
Maximum Diameter (mm) 32
Maximum Seated Height (mm) 87
Approximate Nett Weight (ozs) 14
Approximate Packed Weight (ozs) 34

MOUNTING POSITION – Vertical
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TYPICAL OPERATION

Peak Anode Current (amps) \( I_a(pk) \) 12.0
Anode Dissipation (watts) \( P_a \) 3.5
Approximate D.C. Resistance at 12 amps peak current (ohms) \( \Omega \) 39.0

ELECT
Clear

BASE International Octal (IO8)

Viewed from free end of pins.
Blank pins in socket to be left free.

CONNEXIONS

| Pin 1 | - |
| Pin 2 | Heater |
| Pin 3 | - |
| Pin 4 | - |
| Pin 5 | - |
| Pin 6 | - |
| Pin 7 | Heater |
| Pin 8 | - |
| Top Cap | Anode |

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