The RK3B26 is a heater-cathode, high-vacuum clipper diode designed for use in high voltage application. It is mechanically rugged and in addition uses a hard glass nonex envelope. The plates are gold plated and zirconium coated for better operation at high voltages. The cathode is helix welded making the internal connection more rugged and giving better contact. The self supporting anodes eliminate use of mica spacers allowing high temperature during exhaust thereby obtaining less gas and longer life.

MECHANICAL DATA

ENVELOPE: T - 9 Per Outline
BASE: Intermediate Shell Octal 8-Pin, B8-6, Phenolic
TERMINAL CONNECTIONS:
Pin 1 NC    Pin 6 NC
Pin 2 Heater  Pin 7 Heater and Cathode
Pin 3 NC    Pin 8 NC
Pin 4 NC    Cap Plate
Pin 5 NC
MOUNTING POSITION: Vertical
Cooling: Freely Circulating Air

ELECTRICAL DATA

RATINGS - ABSOLUTE MAXIMUM:
Heater Voltage (ac)  2.5 ± 10% volts
Peak Plate Inverse Voltage  15 kv
Peak Plate Current ♦  8.0 amp
Average Plate Current  20 ma
Average Plate Dissipation  25 watts

CHARACTERISTICS AND TYPICAL OPERATIONS:
Heater Voltage (ac)  2.5 volts
Heater Current  4.75 amp
Cathode Heating Time  2 minutes min.
Voltage Drop at 100 ma  130 volts
Plate Current (dc)  E_b=130 vdc  90 ma min
Peak Emission E_b= 4000 v  8.0 amp min

♦ This value of maximum peak inverse voltage is recommended for tube use in hermetically sealed units that are dry and free from dust.

♦ In clipper service, it is necessary to provide a series resistor in the plate circuits, so that the instantaneous peak plate current will not exceed the specified value under any conditions of equipment overload or arc over. This value of maximum peak current is for intervals of less than 5 micro seconds and repetition rate of less than 2000 times per second.

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