Series Spark Gaps
Types 1B41, 1B45, 1B49
Types 1B41, 1B45, 1B49 are gas-filled, cold-cathode diodes. Two or more tubes are used in series as the switching device in line-type pulsers.

### GENERAL DATA

**Electrical:**
- Frequency Range: 120 to 2000 cps
- Interelectrode Capacitance: 7 uuf
- Instantaneous Breakdown Voltage (Nominal):
  - 1B41: 9.5 kV
  - 1B45: 14 kV
  - 1B49: 12 kV

**Mechanical:**
- Ionized Medium: Gas
- Number of Electrodes: Two
- Mounting Position: Cathode End Up; Within 60° of Vertical

### MAXIMUM RATINGS

- Peak Current: 450 max. Amperes
- Average Power Dissipation: 25 max. Watts
- Average Current: 210 max. Ma.
- Frequency: 2000 max. cps
- Ambient Temperature: -50 to 100 max. °C
- Duty Cycle: 0.001 max.