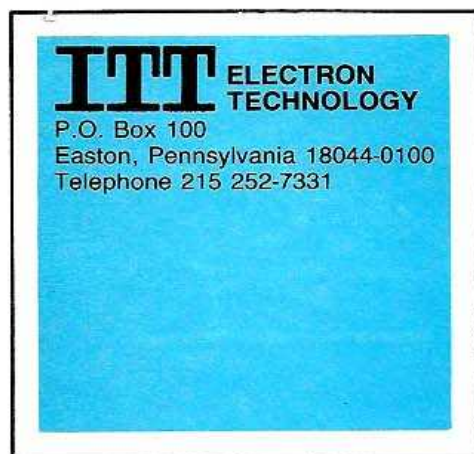




F-1099

POWER DIODE

DESCRIPTION:

The F-1099 is a high power vacuum diode designed for use in charging shunt or rectifying circuits. The cathode is a thoriated tungsten filament. The anode is of heavy wall construction capable of handling high momentary overloads. The anode is forced air cooled and is capable of dissipating up to 12 kW under CW conditions.

ELECTRICAL

Filament Voltage	7.0	Volts
Filament Current	110	Amperes
Filament Starting Current	165	Max. Amperes
Filament Cold Resistance	.010	Ohms

Rectifier Ratings

Maximum Peak Inverse Voltage	50	Kilovolts
Maximum Peak Plate Current	25	Amperes
Average Plate Current	8	Amperes

MECHANICAL

Mounting Position	Vertical, Anode Down
Maximum Incoming Air Temperature	45 °C

Required Air Flow on Anode

Plate Dissipation	12	9.5	7	kW
Air Flow	400	287	200	cfm
Pressure	3.5	2.0	1.0	" Water
Glass Temperature	180	°C		

