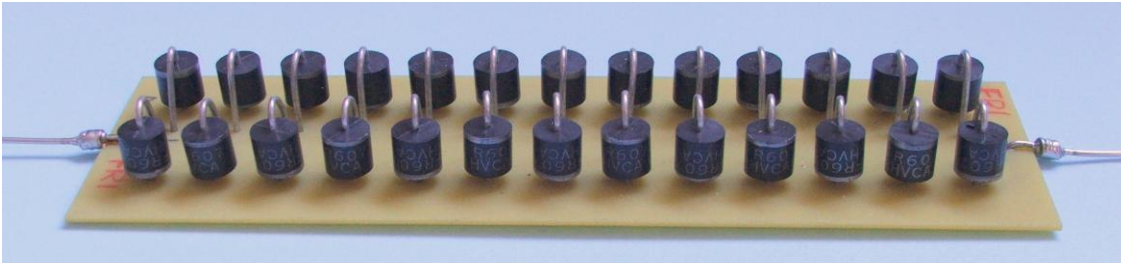


## High Voltage Rectifier from Scanning Devices, Inc.



Part Number	Description
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FR1	High Voltage Rectifier, 5 Amp, 26KV
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### Physical Description:

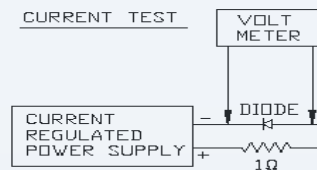
PCB:	7" L * 2" W (board thickness .063")
Component Layout:	26 Fast Recovery Diodes arranged in 2 rows of 13
Lead Length:	6 1/4"
Overall Length:	19 1/2"

### Electrical Specifications: (Maximum Static DC Ratings)

#### Applied Forward Current – 5 Amps

Result:

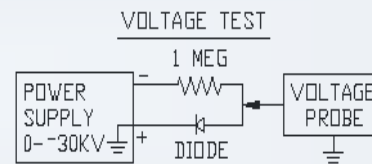
- Diode voltage 20.16 volts
- Diode temperature: 230 degrees F
- Muffin fan air cooling



#### Applied Reverse Voltage – 26,000 volts

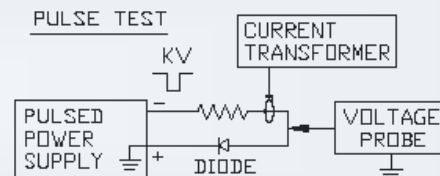
Result:

- Diode voltage: -26,000 Volts
- Diode leakage current: 70 micro Amps
- Diode Temperature: ambient, 70 degrees F

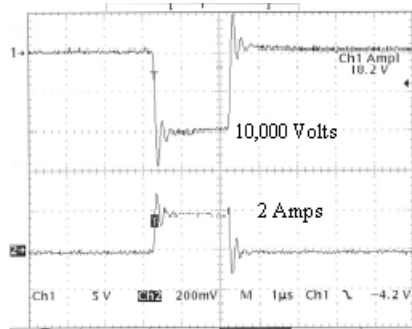


#### Pulsed Performance

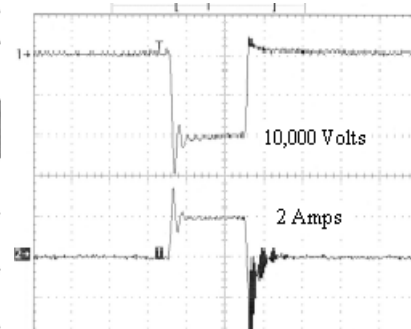
- 2 micro second, -10,000 volt pulse applied



Graphics show pulse voltage excitation (upper), and current (lower). Left graphic is without diode, 5 Kohm resistor only. Right graphic includes diode.



2 microsecond pulse, 5 Kohm resistor, no diode



2 microsecond pulse, 5 Kohm resistor, FR1 diode