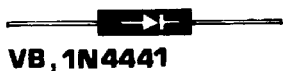


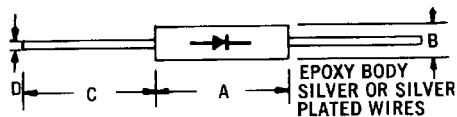
# HIGH VOLTAGE DIFFUSED SILICON RECTIFIERS



VB, 1N4441



VG



These rectifiers offer high voltage ranges in minimum-sized, epoxy-encapsulated packages with low leakage current. All ratings are obtained without the use of special heat sinks or mounting techniques (except VC Series).

They are designed to withstand 500 G's shock and vibration of 100 Hz with a peak acceleration of 10 G's.

Applications: television receivers, electrostatic power supplies, electrostatic copiers, electrostatic air filters and precipitators, cathode ray tube power supplies, transmitters, and microwave ovens.

Electrical Characteristics (@ T <sub>A</sub> = 25°C Unless Otherwise Specified)	Series VA & VB and 1N4441*	Series VF	Series VG	Series VC & VCX*
Max. DC Reverse Current @ PIV and 25°C, I <sub>RM</sub>	.05μA 0.3μA*	1μA	1μA	1μA 2μA*
Max. DC Reverse Current @ PIV and 100°C/85°C*, I <sub>RM</sub>	5.0μA 60μA*	20μA 30μA*	20μA 30μA*	10μA 20μA*
Max. Reverse Recovery Time, t <sub>rr</sub> , Recovery to 1.0 mA	250 nanosec* (I <sub>F</sub> = 2 mA & I <sub>R</sub> = 4 mA)	250 nanosec* (I <sub>F</sub> = 2 mA & I <sub>R</sub> = 4 mA)	250 nanosec* (I <sub>F</sub> = 2 mA & I <sub>R</sub> = 4 mA)	300 nanosec* (I <sub>F</sub> = 1 A & I <sub>R</sub> = 2 A)
Ambient Operating Temperature Range, T <sub>A</sub>	+150°C +85°C*	-55°C to +150°C +85°C*	-55°C to +150°C +85°C*	-50°C to +125°C
Max. One-Half Cycle Surge Current, I <sub>FSM</sub> @ 60 Hz	3 Amps	3 Amps	3 Amps	50 Amps 35 Amps*

\*Fast Recovery Series.

## SERIES VA • VB • 1N4441

Part No.	Peak Rep. Reverse Voltage (V <sub>RRM</sub> ) (Volts)	Avg. Fwd. Current I <sub>o</sub> @ 40°C (mA)	Max. Fwd. Voltage Drop @ 25°C & I <sub>o</sub> V <sub>FM</sub> (Volts)
VA10	1,000	50	4
VA15	1,500	50	4
VA20	2,000	50	4
VA25	2,500	50	4
VA30	3,000	25	6
VA35	3,500	25	6
VA10X	1,000	40	6
VA15X	1,500	40	6
VA20X	2,000	40	6
VA25X	2,500	20	8
VA30X	3,000	20	8
VB10	1,000	100	5
VB15	1,500	100	5
VB20	2,000	100	5
VB25	2,500	100	5
VB30	3,000	50	10
VB40	4,000	50	10
VB50	5,000	50	10
VB60	6,000	50	10
VB10X	1,000	50	6
VB15X	1,500	50	6
VB20X	2,000	50	6
VB25X	2,500	25	12
VB30X	3,000	25	12
VB40X	4,000	25	12
VB50X	5,000	25	12
1N4441	1,500	25	4

## SERIES VG

Part No.	Peak Rep. Reverse Voltage (V <sub>RRM</sub> ) (Volts)	Avg. Fwd. Current I <sub>o</sub> @ 40°C (mA)	Max. Fwd. Voltage Drop @ 25°C & I <sub>o</sub> V <sub>FM</sub> (Volts)
VG1	1,000	100	5
VG2	2,000	100	5
VG3	3,000	100	10
VG4	4,000	50	10
VG5	5,000	50	12
VG7	7,000	50	14
VG10	10,000	25	20
VG12	12,000	25	24
VG15	15,000	10	30
VG20	20,000	10	40
VG1X	1,000	50	6
VG2X	2,000	50	6
VG3X	3,000	50	12
VG4X	4,000	25	12
VG5X	5,000	25	14
VG7X	7,000	10	16
VG10X	10,000	10	24
VG12X	12,000	5	30
VG15X	15,000	5	36
VG20X	20,000	5	50

### NOTES:

- Suffix (X) denotes Fast Recovery Series.