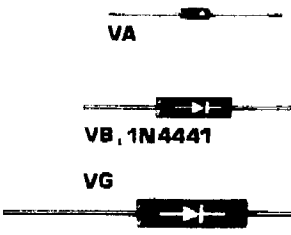
New Jersey Semi-Conductor Products, Inc.

20 STERN AVE.
SPRINGFIELD, NEW JERSEY 07081
U.S.A.

TELEPHONE: (973) 376-2922
(212) 227-6005
FAX: (973) 376-8960

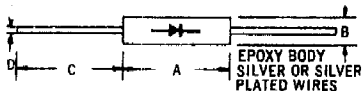
VA10 – VA30X
VB10 – VB50X
VG1 – VG20
VG1X – VG20X



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.



Case Style	A. Pkg. Length	B. Dia.	C. Min. Wire Length	D. Nominal Wire Dia.
VA	.150	.060	.400	.010
VB	.400	.100	.400	.020
VG	.600	.160	.750	.020

Electrical Characteristics (@ T_A = 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_{RM}	.05μA / .03μA*	1μA	1μA	1μA / 2μA*
Max. DC Reverse Current @ PIV and 100°C/85°C*, I_{RM}	5.0μA / 60μA*	40μA / 60μA*	40μA / 60μA*	10μA / 20μA*
Max. Reverse Recovery Time, t_{rr}, Recovery to 1.0 mA	250 nanosec* (I_F = 2mA & I_R = 4mA)	250 nanosec* (I_F = 2 mA & I_R = 4 mA)	250 nanosec* (I_F = 2 mA & I_R = 4 mA)	300 nanosec* (I_F = 1A & I_R = 2A
Ambient Operating Temperature Range, T_A	+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_{FSM} @ 60 Hz	3 Amps	3 Amps	3 Amps	50 Amps / 35 Amps*

*Fast Recovery Series.

SERIES VA • VB • IN4441

Part No.	Peak Rep. Reverse Voltage (V_{RRM}) (Volts)	Avg. Fwd. Current I_O @ 40°C (mA)	Max. Fwd. Voltage Drop @ 25°C & I_O V_{FM} (Volts)	PRICING 1-99	PRICING 100-999
VA10	1,000	50	4	$1.36	$1.02
VA15	1,500	50	4	1.44	1.08
VA20	2,000	50	4	1.55	1.16
VA25	2,500	50	4	1.66	1.25
VA30	3,000	25	6	1.93	1.45
VA35	3,500	25	6	2.70	2.02
VA10X	1,000	40	6	1.80	1.35
VA15X	1,500	40	6	1.93	1.45
VA20X	2,000	40	6	2.07	1.55
VA25X	2,500	20	8	2.20	1.65
VA30X	3,000	20	8	2.85	2.13
VB10	1,000	100	5	1.41	1.07
VB15	1,500	100	5	1.51	1.15
VB20	2,000	100	5	1.59	1.20
VB25	2,500	100	5	1.72	1.30
VB30	3,000	50	10	1.88	1.42
VB40	4,000	50	10	2.05	1.56
VB50	5,000	50	10	2.40	1.82
VB60	6,000	50	10	2.62	1.99
VB10X	1,000	50	6	1.88	1.43
VB15X	1,500	50	6	2.01	1.53
VB20X	2,000	50	6	2.12	1.60
VB25X	2,500	25	12	2.30	1.73
VB30X	3,000	25	12	2.50	1.90
VB40X	4,000	25	12	2.74	2.08
VB50X	5,000	25	12	3.20	2.42
1N4441	1,500	25	4	2.01	1.53

SERIES VG

Part No.	Peak Rep. Reverse Voltage (V_{RRM}) (Volts)	Avg. Fwd. Current I_O @ 40°C (mA)	Max. Fwd. Voltage Drop @ 25°C & I_O V_{FM} (Volts)	PRICING 1-99	PRICING 100-999
VG1	1,000	100	5	$ .80	$ .65
VG2	2,000	100	5	.85	.68
VG3	3,000	50	10	.97	.77
VG4	4,000	50	10	1.04	.83
VG5	5,000	50	12	1.22	.97
VG7	7,000	25	14	1.30	1.03
VG10	10,000	25	20	1.49	1.18
VG12	12,000	10	24	1.58	1.25
VG15	15,000	10	30	1.76	1.40
VG20	20,000	10	40	2.08	1.65
VG1X	1,000	50	6	.85	.68
VG2X	2,000	50	6	.89	.71
VG3X	3,000	25	12	.99	.79
VG4X	4,000	25	12	1.14	.91
VG5X	5,000	25	14	1.35	1.07
VG7X	7,000	10	16	1.42	1.13
VG10X	10,000	10	24	1.64	1.30
VG12X	12,000	5	30	1.74	1.38
VG15X	15,000	5	36	1.94	1.54
VG20X	20,000	5	50	2.29	1.82

NOTES:
1. Suffix (X) denotes Fast Recovery Series.
2. Maximum lead and terminal temperature for soldering, ⅜ inch from case, 5 seconds at 250°C.
3. If operated over 10,000 V/inch in length, devices should be immersed in oil or re-encapsulated.