New Jersey Semi-Conductor Products, Inc.

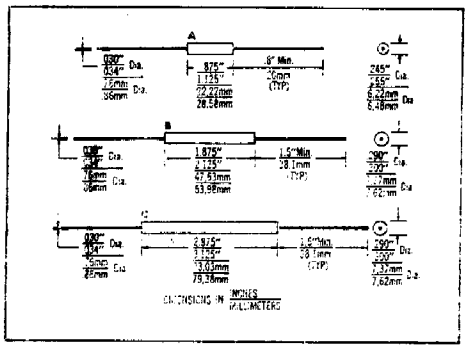
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VF5 – VF50
VF5X – VF50X

Minimum Size
5KV to 50KV (V_{RRM})
Diffused Silicon Junction
Low Leakage Current
250 Nanosec. Reverse Recovery*

VARO Type No.	Repetitive Peak Reverse Voltage V_{RRM} (Volts)	Avg. Fwd. Current I_o @ 40°C (mA)	Max. Fwd. Voltage Drop @ 10mA (Volts)	Case Style	VARO Type No.	Repetitive Peak Reverse Voltage V_{RRM} (Volts)	Avg. Fwd. Current I_o @ 40°C (mA)	Max. Fwd. Voltage Drop @ 10mA (Volts)	Case Style
VF 5	5,000	130	10	A	VF 5X	5,000	60	12	A
VF 7	7,000	115	12	A	VF 7X	7,000	45	16	A
VF10	10,000	100	15	A	VF10X	10,000	40	18	A
VF12	12,000	100	18	A	VF12X	12,000	35	22	A
VF15	15,000	90	30	B	VF15X	15,000	30	34	B
VF20	20,000	90	32	B	VF20X	20,000	25	40	B
VF25	25,000	85	35	B	VF25X	25,000	25	44	B
VF30	30,000	80	45	C	VF30X	30,000	25	48	C
VF40	40,000	45	75	C	VF40X	40,000	25	75	C
VF50	50,000	40	80	C	VF50X	50,000	25	90	C



ELECTRICAL CHARACTERISTICS (At T_A = 25°C unless otherwise specified)	
Max. DC Reverse Current @ rated V_{RRM} and 25°C, I_RM	1µA
Max. DC Reverse Current @ rated V_{RRM} and 100°C, I_{RM}	10µA
Max. Reverse Recovery Time, @ I_F = 2mA and I_R = – 4mA, Recovery to – 1.0mA (FIG. 3), t_{rr}	250 Nanosec*
Ambient Operating Temperature Range, T_A	–55°C to +150°C / +100°C*
Storage Temperature Range, T_{STG}	–55°C to +150°C
Max. One-Half Cycle Surge Current, I_{FM} @ 60 Hz, I_{FSM}	3 Amps

*Fast Recovery Series

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.

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Quality Semi-Conductors

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