New Jersey Semi-Conductor Products, Inc.

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Minimum Size 5KV to 50KV (V_{RRM}) **Diffused Silicon Junction** Low Leakage Current

250 Nanosec. Reverse Recovery*

VF5 - VF50VF5X - VF50X

VARO Type No.	Repetitive Peak Reverse Voltage V _{RRM} (Volta)	Avg. Fwd. Current i. @ 40°C (mA)	Max. Fwd. Voltage Drop @ 10mA (Volts)	Case Style	VARO Type No.	Repetitive Peak Reverse Voltage V _{RRM} (Volts)	Avg. Pwd. Current I. @ 40°C (mA)	Mus. Pwd. Voltage Drop @ 10mA (Volts)	Case Style
VF 5	5,000	130	10	A	VF 5X	5,000	60	12	Α
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	В	VF15X	15,000	30	34	в
VF20	20,000 🖌	90	32	В	VF20X	20,000	25	40	B
VF25	25,000	85	35	в	VF25X	25,000	25	44	в
VF30	<u>\$0,000</u>	80	-45	С	VF30X	30,000	25	48	с
VF40	40,000	45	75	С	VF40X	40,000	25	75	С
VF50	50,000	40	80	С	VF50X	50,000	25	90	С



ELECTRICAL CHARACTERISTICS (At $T_A = 25^{\circ}C$ unless otherwise specified)			
Max, DC Reverse Current @ rated V _{RRM} and 25°C, I _R M	1μΑ		
Max. DC Reverse Current @ rated V _{ERM} and 100°C, I _{RM}	10p.A		
Max. Reverse Recovery Time, (i) $I_F = 2mA$ and $I_R = -4mA$, Recovery to $-1.0mA$ (FIG. 3), t_r	250 hanosec*		
Ambient Operating Temperature Range, Ta	−55°C ເວ <u>+150°C</u> +100°C″		
Storage Temperature Bange, T _{STG}	35°C to + 150°C		
Max. Cne-Half Cycle Sorge Current, I _{SM} @ 60 Hz, I _{FSM}	3 Amps		

*Fast Recovery Series

NOTES:

Suffix (X) denotes Fast Recovery Series.
Maximum lead and terminal temperature for soldering, ½ inch from case, 5 seconds at 250°C.

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