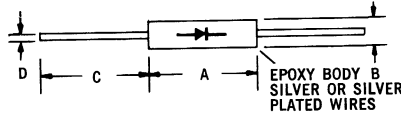


# HIGH VOLTAGE DIFFUSED SILICON POWER RECTIFIERS

SERIES VF



VARO Type No. Average Forward Current, @ $T_A = 40^\circ\text{C}$ , $I_o$			Peak Repetitive Reverse Voltage, $V_{RRM}$ (Volts)	Max. Inst. Forward Voltage Drop @ $T_A = 25^\circ\text{C}$ and $I_o$ $V_{FM}$ (Volts)	Case Style
5mA	10mA	25mA			
VF5- 5	VF10- 5	VF25- 5	5,000	12	A
VF5- 7	VF10- 7	VF25- 7	7,000	12	A
VF5-10	VF10-10	VF25-10	10,000	18	A
VF5-12	VF10-12	VF25-12	12,000	18	A
VF5-15	VF10-15	VF25-15	15,000	35	B
VF5-20	VF10-20	VF25-20	20,000	35	B
VF5-25	VF10-25	VF25-25	25,000	35	B
VF5-30	VF10-30	VF25-30	30,000	50	C
VF5-40	VF10-40	VF25-40	40,000	50	C
VF5- 5X	VF10- 5X	VF25- 5X	5,000	15	A
VF5- 7X	VF10- 7X	VF25- 7X	7,000	15	A
VF5-10X	VF10-10X	VF25-10X	10,000	30	A
VF5-12X	VF10-12X	VF25-12X	12,000	30	A
VF5-15X	VF10-15X	VF25-15X	15,000	60	B
VF5-20X	VF10-20X	VF25-20X	20,000	60	B
VF5-25X	VF10-25X	VF25-25X	25,000	60	B
VF5-30X	VF10-30X	VF25-30X	30,000	90	C
VF5-40X	VF10-40X	VF25-40X	40,000	90	C

## ELECTRICAL CHARACTERISTICS AT $T = 25^\circ\text{C}$ (UNLESS OTHERWISE SPECIFIED)

Max. DC Reverse Current @ Rated $V_{RRM}$ and $25^\circ\text{C}$ , $I_{RM}$	$1\mu\text{A}$
Max. DC Reverse Current @ Rated $V_{RRM}$ and $\frac{100^\circ\text{C}}{85^\circ\text{C}}$ , $I_{RM}$	$\frac{20\mu\text{A}}{30\mu\text{A}^*}$
Max. Reverse Recovery Time @ $I_F = 2\text{mA}$ and $I_R = 4\text{mA}$ , Recovery to $1.0\text{mA}$ , $t_{rr}$	250 nanosec*
Ambient Operating Temperature Range, $T_A$	$-55^\circ\text{C}$ to $+150^\circ\text{C}$ $+85^\circ\text{C}^*$
Storage Temperature Range, $T_{STG}$	$-55^\circ\text{C}$ to $+150^\circ\text{C}$
Max. One-Half Cycle Surge Current @ 60 Hz, $I_{FSM}$	3 Amps

\*Fast Recovery Series