



All dimensions in mm

**SMA Package Voltages up to 5Kv  
Currents up to 900ma**

HVCA Number	Repetitive Peak Reverse Voltage $V_{RRM}$ (Volts)	Avg. Forward Current Max. $I_{FAVM}@T_L=55^\circ\text{C}$ mA (milliamps)	Avg. Forward Current Max. $I_{FAVM}@T_L=100^\circ\text{C}$ mA (milliamps)	Max. Forward Voltage Drop $V_F@100\text{mA}$ V (Volts)	Typical Reverse Recovery Time (Note 1) $T_{RR}$ (nsec)	Typical Reverse Recovery Time (Note 2) $T_{RR}$ (nsec)	Lead Type
SM3F	3000	900	350	3.0	75	75	Fig 94
SM3FG	3000	900	350	3.0	75	75	Fig 95
SP5L	5000	270	140	14.0	75	100	Fig 94
SP5LG	5000	270	140	14.0	75	100	Fig 95
SP5S	5000	40	20	14.0	60	100	Fig 94
SP5SG	5000	40	20	14.0	60	100	Fig 95

HVCA Number	Max. Reverse Current $I_R@V_{RRM}@25^\circ\text{C}$ $\mu$ (microamps)	Typical Junction Capacitance $C_j$ (pF) (Note 3)	Typical Thermal Resistance $R_{\theta JA}$ (Note 4)	Typical Thermal Resistance $R_{\theta QL}$	Max Surge Current $I_{FSM}$ (8.3 ms) A (Amps)	Operating Temperature $T_o$ ( $^\circ\text{C}$ )	Storage Temperature $T_s$ ( $^\circ\text{C}$ )
SM3F	5.0	15	30	7	15	-55 to 125	-55 to 150
SM3FG	5.0	15	30	7	15	-55 to 125	-55 to 150
SP5L	0.1	15	-	9	10	-55 to 150	-55 to 150
SP5LG	0.1	15	-	9	10	-55 to 150	-55 to 150
SP5S	2.0	15	-	-	3	-55 to 150	-55 to 150
SP5SG	2.0	15	-	-	3	-55 to 150	-55 to 150

Notes:

(1)  $I_F=20\text{mA}$ ,  $I_R=4\text{mA}$ ,  $I_{rr}=10\text{mA}$

(2)  $I_F=100\text{mA}$ ,  $I_R=250\text{mA}$ ,  $I_{rr}=50\text{mA}$

(3) Measured at 1 KHz

(4) P.C.B. mounted on 0.2" x 0.2" (5.0 x 5.0mm) copper pad areas

## Derating Curves

