



# MOSFETs

## FAP-III A Series Automotive Types Logic Level Operation, Low $R_{DS(ON)}$ , High Avalanche Ruggedness, Integrated G-SSurge Protection, 60 Volts

Device Type	Maximum Ratings			Characteristics (Max.)						Package
	V <sub>DSS</sub> (V)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	R <sub>DS(ON)</sub> Ω VGS=4V	R <sub>DS(ON)</sub> Ω VGS=10V	C <sub>iss</sub> (pf)	C <sub>oss</sub> (pf)	t <sub>on</sub> (ns)	t <sub>off</sub> (ns)	
2SK1822-01M	60	20	35	0.110	0.070	900	390	56	260	TO220F15
2SK1823-01	60	50	80	0.027	0.017	3900	1500	350	1411	TO3PF
2SK1969-01	60	50	125	0.027	0.017	3900	1500	350	1411	TO3P

## F-III Series Logic Level Operation, Low $R_{DS(ON)}$ 30 - 250 Volts

Device Type	Maximum Ratings			Characteristics (Max.)						Package
	V <sub>DSS</sub> (V)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	R <sub>DS(ON)</sub> Ω VGS=4V	R <sub>DS(ON)</sub> Ω VGS=10V	C <sub>iss</sub> (pf)	C <sub>oss</sub> (pf)	t <sub>on</sub> (ns)	t <sub>off</sub> (ns)	
2SK1505M	30	35	40	0.037	0.022	2630	1200	188	720	TO220F15
2SK2048	30	35	60	0.037	0.022	2630	1200	188	720	T-PACK L,S
2SK1388	30	35	60	0.037	0.022	2630	1200	188	720	TO220
2SK1083M	60	8	20	0.350	0.220	450	170	55	105	TO220F15
2SK1096M	60	13	30	0.190	0.120	750	300	60	180	TO220F15
2SK1086M	60	20	35	0.110	0.070	1300	450	75	310	TO220F15
2SK1814	60	20	35	0.110	0.070	1300	450	75	310	TO220
2SK1881	60	20	45	0.110	0.070	1300	450	75	310	T-PACK L,S
2SK1387M	60	35	40	0.056	0.035	2700	930	99	760	TO220F15
2SK1089	60	35	80	0.056	0.035	2700	930	99	760	TO3P
2SK1508	60	35	60	0.056	0.035	2700	930	99	760	TO220
2SK1815	60	35	50	0.056	0.035	2700	930	99	760	TO3PF
2SK1389	60	50	125	0.040	0.025	3900	1200	230	850	TO3P
2SK1390	60	50	80	0.040	0.025	3900	1200	230	850	TO3PF
2SK2049	75	50	80	0.040	0.025	3900	1200	230	850	TO220
2SK1084	100	5	20	0.700	0.500	450	100	53	85	TO220F
2SK1816	100	5	20	0.700	0.500	450	100	53	85	T-PACK L,S
2SK1097	100	8	30	0.390	0.280	900	180	60	170	TO220F
2SK1087M	100	12	35	0.240	0.170	1430	300	93	320	TO220F15
2SK1817M	100	20	40	0.120	0.080	2780	600	83	680	TO220F15
2SK1090	100	20	80	0.120	0.080	2780	600	83	680	TO3P
2SK1509	100	20	60	0.120	0.080	2780	600	83	680	TO220
2SK2050	100	30	80	0.070	0.055	3700	750	240	1140	TO220
2SK1506	120	50	150	0.045	0.030	7500	1380	345	2025	TO3P
2SK1085M	150	3	20	1.170	0.900	530	90	50	120	TO220F15
2SK1098	150	6	30	0.650	0.500	900	150	75	170	TO220F
2SK1088M	150	9	35	0.400	0.300	1200	230	75	275	TO220F15
2SK1091	150	15	80	0.200	0.150	2850	450	83	680	TO3P
2SK1861	250	20	80	0.187	0.170	4500	450	135	970	T-PACK L,S

## F-V Series, FREDFET Diode Recovery Time (150-200 nsec), Improved Turn-On Time 250-500 Volts

Device Type	Maximum Ratings			Characteristics (Max.)						Package
	V <sub>DSS</sub> (V)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	R <sub>DS(ON)</sub> Ω	C <sub>iss</sub> (pf)	C <sub>oss</sub> (pf)	t <sub>on</sub> (ns)	t <sub>off</sub> (ns)	t <sub>rr</sub> (nS)	
2SK1818M	250	20	45	0.25	1600	360	125	450	150	TO220F15
2SK1979	250	20	80	0.20	1600	360	125	450	150	TO3PF
2SK1276	250	20	100	0.20	1600	360	125	450	150	TO3P
2SK1277	250	30	150	0.12	3600	750	260	900	150	TO3P
2SK1819-01M	450	5	35	1.50	750	120	85	245	150	TO220F15
2SK2052	500	10	90	1.10	1600	210	130	440	200	TO3PF
2SK1378	500	10	100	1.10	1600	210	130	440	200	TO3P
2SK1279	500	15	125	0.58	3000	400	195	840	200	TO3P
2SK1280	500	18	150	0.50	3600	450	270	920	200	TO3P

