



# パワー-MOSFET / Power MOSFETs

## ■ パワー-MOSFET Power MOSFET

Super FAP-Gシリーズ Super FAP-G series

低オン抵抗、低ゲート容量 Low-on resistance and low gate charge

形式 Device type	V <sub>DSS</sub> Volts	I <sub>D</sub> Amps.	I <sub>D</sub> (pulse) Amps.	R <sub>DS</sub> (on) Max. *1 Ohms (Ω)	P <sub>D</sub> *2 Watts	V <sub>GSS</sub> Volts	V <sub>GS</sub> (th) Typ. Volts	パッケージ Package	質量 Net mass Grams
2SK3474-01	150	23	92	0.07	75	±20	3 to 5	TFP	0.8
2SK3537-01MR	150	23	92	0.07	135	±20	1 to 2.5	TO-220F	2.0
2SK3554-01	250	25	100	0.1	135	±20	3 to 5	TO-220AB	2.0
2SK3555-01MR	250	25	100	0.1	70	±20	3 to 5	TO-220F	2.0
2SK3556-01L, S	250	25	100	0.1	135	±20	3 to 5	T-pack	1.6
2SK3535-01	250	25	100	0.1	135	±20	3 to 5	TFP	0.8
2SK3514-01	450	8	32	0.65	75	±30	3 to 5	TO-220AB	2.0
2SK3515-01MR	450	8	32	0.65	40	±30	3 to 5	TO-220F	2.0
2SK3516-01L, S	450	8	32	0.65	75	±30	3 to 5	T-pack	1.6
▲ 2SK3517-01	500	5	20	1.5	45	±30	3 to 5	TO-220AB	2.0
▲ 2SK3518-01MR	500	5	20	1.5	20	±30	3 to 5	TO-220F	2.0
2SK3519-01	500	8	32	0.85	65	±30	3 to 5	TO-220AB	2.0
2SK3520-01MR	500	8	32	0.85	35	±30	3 to 5	TO-220F	2.0
2SK3521-01L, S	500	8	32	0.85	65	±30	3 to 5	T-pack	1.6
2SK3468-01	500	12	48	0.52	95	±30	3 to 5	TO-220AB	2.0
2SK3469-01MR	500	12	48	0.52	50	±30	3 to 5	TO-220F	2.0
2SK3512-01L, S	500	12	48	0.52	95	±30	3 to 5	T-pack	1.6
2SK3504-01	500	14	56	0.46	115	±30	3 to 5	TO-220AB	2.0
2SK3505-01MR	500	14	56	0.46	60	±30	3 to 5	TO-220F	2.0
▲ 2SK3522-01	500	21	84	0.26	220	±30	3 to 5	TO-247	5.5
▲ 2SK3523-01R	500	21	84	0.26	120	±30	3 to 5	TO-3PF	6.0
2SK3524-01	600	6	24	1.2	65	±30	3 to 5	TO-220AB	2.0
2SK3525-01MR	600	6	24	1.2	35	±30	3 to 5	TO-220F	2.0
2SK3526-01L, S	600	6	24	1.2	80	±30	3 to 5	T-pack	1.6
2SK3501-01	600	10	40	0.75	95	±30	3 to 5	TO-220AB	2.0
2SK3502-01MR	600	10	40	0.75	50	±30	3 to 5	TO-220F	2.0
2SK3513-01L, S	600	10	40	0.75	95	±30	3 to 5	T-pack	1.6
2SK3450-01	600	12	48	0.65	115	±30	3 to 5	TO-220AB	2.0
2SK3451-01MR	600	12	48	0.65	60	±30	3 to 5	TO-220F	2.0
▲ 2SK3527-01	600	17	68	0.37	220	±30	3 to 5	TO-247	5.5
▲ 2SK3528-01R	600	17	68	0.37	120	±30	3 to 5	TO-3PF	6.0
▲ 2SK3529-01	800	5	20	1.9	95	±30	3 to 5	TO-220AB	2.0
▲ 2SK3530-01MR	800	5	20	1.9	50	±30	3 to 5	TO-220F	2.0
▲ 2SK3531-01	900	4.6	18.4	2.5	95	±30	3 to 5	TO-220AB	2.0
▲ 2SK3532-01MR	900	4.6	18.4	2.5	50	±30	3 to 5	TO-220F	2.0
▲ 2SK3533-01	900	5.5	22	2	115	±30	3 to 5	TO-220AB	2.0
▲ 2SK3534-01MR	900	5.5	22	2	60	±30	3 to 5	TO-220F	2.0
▲ 2SK3549-01	900	8	-	1.4	-	±30	3 to 5	TO-247	5.5
▲ 2SK3550-01R	900	8	-	1.4	-	±30	3 to 5	TO-3PF	6.0

\*1 R<sub>DS</sub> (on): V<sub>GS</sub>=10V, \*2 P<sub>D</sub>: T<sub>C</sub>=25°C ▲開発中 Tentative ratings



## ■ パワーMOSFET Power MOSFET

### F-II / FAP-II シリーズ F-II / FAP-II series

高速スイッチング/アバランシェ耐量保証 High speed switching / Avalanche rated

形 式 Device type	V <sub>DSS</sub> Volts	I <sub>D</sub> Amps.	I <sub>D</sub> (pulse) Amps.	R <sub>DS(on)</sub> Max. *1 Ohms (Ω)	P <sub>D</sub> *2 Watts	V <sub>GSS</sub> Volts	V <sub>GS(th)</sub> Typ. Volts	パッケージ Package	質 量 Net mass Grams
2SK2519-01	200	10	40	0.4	40	±30	3.5	TO-220AB	2.0
2SK2520-01MR	200	10	40	0.4	30	±30	3.5	TO-220F	2.0
2SK2521-01	200	18	72	0.18	50	±30	3.5	TO-220AB	2.0
2SK2522-01MR	200	18	72	0.18	40	±30	3.5	TO-220F	2.0
2SK2849-01L, S	200	18	72	0.18	50	±30	3.5	T-pack	1.6
2SK2469-01MR	300	5	20	1.0	30	±30	4.0	TO-220F	2.0
2SK2470-01MR	300	10	40	0.53	40	±30	4.0	TO-220F	2.0
2SK2471-01	300	10	40	0.53	80	±30	4.0	TO-3P	5.5
2SK2473-01	300	20	80	0.2	125	±30	4.0	TO-3P	5.5
2SK1006-01MR	450	5	14	1.6	40	±30	3.5	TO-220F	2.0
2SK1007-01	450	5	14	1.6	60	±30	3.5	TO-220AB	2.0
2SK2523-01	450	9	36	1.0	50	±30	3.5	TO-220AB	2.0
2SK2524-01MR	450	9	36	1.0	40	±30	3.5	TO-220F	2.0
2SK2525-01	450	9	36	1.0	80	±30	3.5	TO-3P	5.5
2SK1008-01	500	4.5	12	2.2	60	±30	3.5	TO-220AB	2.0
2SK1014-01	500	12	36	0.74	125	±30	3.5	TO-3P	5.5
2SK2695-01	700	5	20	1.85	60	±30	3.5	TO-220AB	2.0
2SK2696-01MR	700	5	20	1.85	50	±30	3.5	TO-220F	2.0
2SK951-MR	800	2.5	7	7.0	40	±30	3.5	TO-220F	2.0
2SK952	800	2.5	7	7.0	45	±30	3.5	TO-220AB	2.0
2SK1552-01L, S	800	4	10	4.5	60	±30	3.5	T-pack	1.6
2SK2397-01MR	800	5	20	2.3	50	±30	3.5	TO-220F	2.0
2SK2526-01	900	5	20	3.6	60	±30	3.5	TO-220AB	2.0
2SK2527-01MR	900	5	20	3.6	40	±30	3.5	TO-220F	2.0
2SK2528-01	900	5	20	3.6	80	±30	3.5	TO-3P	5.5

\*1 R<sub>DS(on)</sub>: V<sub>GS</sub>=10V, \*2 P<sub>D</sub>: T<sub>C</sub>=25°C

#### 記号 Letter symbols

V<sub>DSS</sub>: ドレイン・ソース電圧

Drain-source voltage

I<sub>D</sub>: ドレイン電流

Continuous drain current

I<sub>D</sub>(pulse): パルスドレイン電流

Pulsed drain current

R<sub>DS(on)</sub>: ドレイン・ソース オン抵抗

Drain-source on-state resistance

P<sub>D</sub>: 許容損失電力

Maximum power dissipation

V<sub>GSS</sub>: ゲート・ソース電圧

Gate-source peak voltage

V<sub>GS(th)</sub>: ゲートしきい値電圧

Gate threshold voltage



# パワー-MOSFET / Power MOSFETs

## ■ パワー-MOSFET Power MOSFET

### FAP-IIA シリーズ FAP-IIA series

低オン抵抗、低入力容量 Low-on resistance and low typical capacitance

形式 Device type	V <sub>DSS</sub> Volts	I <sub>D</sub> Amps.	I <sub>D</sub> (pulse) Amps.	R <sub>DS</sub> (on) Max. *1 Ohms (Ω)	P <sub>D</sub> *2 Watts	V <sub>GSS</sub> Volts	V <sub>GS</sub> (th) Typ. Volts	パッケージ Package	質量 Net mass Grams
2SK2518-01MR	200	20	80	0.13	50	±30	3.0	TO-220F	2.0
2SK2918-01	200	20	80	0.13	80	±30	3.0	TO-220AB	2.0
2SK2774-01MR	250	2	8	2.0	20	±30	3.0	TO-220F	2.0
2SK2251-01	250	2	8	2.0	20	±30	3.0	TO-220AB	2.0
2SK2250-01L, S	250	2	8	2.0	10	±30	3.0	K-pack	0.6
2SK2292-01L, S	250	4	16	1.1	20	±30	3.0	K-pack	0.6
2SK2099-01L, S	250	6	24	0.85	20	±30	3.0	K-pack	0.6
2SK2252-01L, S	250	8	32	0.5	50	±30	3.0	T-pack	1.6
2SK2253-01MR	250	8	32	0.5	40	±30	3.0	TO-220F	2.0
2SK2254-01L, S	250	18	72	0.18	80	±30	3.0	T-pack	1.6
2SK2256-01	250	18	72	0.18	80	±30	3.0	TO-220AB	2.0
2SK2255-01MR	250	18	72	0.18	50	±30	3.0	TO-220F	2.0
2SK2019-01	500	3.5	14	3.0	40	±30	3.0	TO-220AB	2.0
2SK2020-01MR	500	3.5	14	3.0	30	±30	3.0	TO-220F	2.0
2SK1981-01	500	10	40	0.76	80	±30	3.0	TO-220AB	2.0
2SK1982-01MR	500	10	40	0.76	50	±30	3.0	TO-220F	2.0
2SK1936-01	500	10	40	0.76	100	±30	3.0	TO-3P	5.5
2SK2213-01L, S	500	10	40	0.76	80	±30	3.0	T-pack	1.6
2SK2223-01R	500	10	40	0.76	80	±30	3.0	TO-3PF	6.0
2SK2081-01	500	12	48	0.6	125	±30	3.0	TO-3P	5.5
2SK2257-01	500	17	68	0.4	150	±30	3.0	TO-3P	5.5
2SK1938-01R	500	18	72	0.35	100	±30	3.0	TO-3PF	6.0
2SK1821-01MR	600	2	6	6.5	30	±25	3.0	TO-220F	2.0
2SK2071-01L, S	600	2	6	6.5	20	±30	3.0	K-pack	0.6
2SK2023-01	600	3	12	4.5	40	±30	3.0	TO-220AB	2.0
2SK2002-01MR	600	3	12	4.5	30	±30	3.0	TO-220F	2.0
2SK2025-01	600	4	16	2.4	60	±30	3.0	TO-220AB	2.0
2SK2003-01MR	600	4	16	2.4	40	±30	3.0	TO-220F	2.0
2SK1941-01R	600	16	64	0.55	100	±30	3.0	TO-3PF	6.0
2SK2100-01MR	800	4	16	3.3	40	±30	3.0	TO-220F	2.0
2SK1983-01	900	3	12	4.0	60	±30	3.0	TO-220AB	2.0
2SK2029-01L, S	900	3	12	4.0	60	±30	3.0	T-pack	1.6
2SK1984-01MR	900	3	12	4.0	40	±30	3.0	TO-220F	2.0
2SK1942-01	900	3	12	4.0	80	±30	3.0	TO-3P	5.5
2SK2224-01R	900	3	12	4.0	50	±30	3.0	TO-3PF	6.0
2SK1945-01L, S	900	5	20	2.8	80	±30	3.0	T-pack	1.6
2SK1943-01	900	5	20	2.8	80	±30	3.0	TO-220AB	2.0
2SK1985-01MR	900	5	20	2.8	50	±30	3.0	TO-220F	2.0
2SK1944-01	900	5	20	2.8	100	±30	3.0	TO-3P	5.5
2SK2272-01R	900	5	20	2.8	100	±30	3.0	TO-3PF	6.0
2SK1986-01	1000	4	16	3.6	80	±30	3.0	TO-220AB	2.0
2SK2258-01	1000	4	16	3.6	100	±30	3.0	TO-3P	5.5
2SK2004-01L, S	1000	4	16	3.6	80	±30	3.0	T-pack	1.6

\*1 R<sub>DS</sub> (on): V<sub>GS</sub>=10V, \*2 P<sub>D</sub>: T<sub>C</sub>=25°C



## ■ パワーMOSFET Power MOSFET

### FAP-IIS シリーズ FAP-IIS series

高温・連続アバランシェ耐量保証 Repetitive avalanche rated

形式 Device type	V <sub>bss</sub> Volts	I <sub>d</sub> Amps.	I <sub>d</sub> (pulse) Amps.	R <sub>ds</sub> (on) Max. *1 Ohms (Ω)	P <sub>D</sub> *2 Watts	V <sub>GSS</sub> Volts	V <sub>Gs</sub> (th) Typ. Volts	パッケージ Package	質量 Net mass Grams
2SK3340-01	400	23	92	0.2	295	±30	3.0	TO-247	5.5
2SK2870-01L, S	450	8	32	1.2	50	±35	4.0	T-pack	1.6
2SK2871-01	450	8	32	1.2	50	±35	4.0	TO-220AB	2.0
2SK2872-01MR	450	8	32	1.2	30	±35	4.0	TO-220F	2.0
2SK2873-01	450	8	32	1.2	60	±35	4.0	TO-3P	5.5
2SK2638-01MR	450	10	40	0.65	50	±35	4.0	TO-220F	2.0
2SK2639-01	450	10	40	0.65	100	±35	4.0	TO-3P	5.5
2SK2754-01L, S	450	10	40	0.65	80	±35	4.0	T-pack	1.6
2SK2755-01	450	18	72	0.45	125	±35	4.0	TO-3P	5.5
2SK2756-01R	450	18	72	0.45	80	±35	4.0	TO-3PF	6.0
2SK2874-01L, S	500	6	24	1.5	50	±35	4.0	T-pack	1.6
2SK2875-01	500	6	24	1.5	50	±35	4.0	TO-220AB	2.0
2SK2876-01MR	500	6	24	1.5	30	±35	4.0	TO-220F	2.0
2SK2877-01	500	6	24	1.5	60	±35	4.0	TO-3P	5.5
2SK2640-01MR	500	10	40	0.9	50	±35	4.0	TO-220F	2.0
2SK2641-01	500	10	40	0.9	100	±35	4.0	TO-3P	5.5
2SK2757-01	500	10	40	0.9	80	±35	4.0	TO-220AB	2.0
2SK2758-01L, S	500	10	40	0.9	80	±35	4.0	T-pack	1.6
2SK2642-01MR	500	15	60	0.55	80	±35	4.0	TO-220F	2.0
2SK2643-01	500	15	60	0.55	125	±35	4.0	TO-3P	5.5
2SK2759-01R	500	15	60	0.55	80	±35	4.0	TO-3PF	6.0
2SK2644-01	500	18	72	0.45	125	±35	4.0	TO-3P	5.5
2SK2879-01	500	20	80	0.38	150	±30	3.0	TO-3P	5.5
2SK3338-01	500	20	80	0.27	340	±30	3.0	TO-247	5.5
2SK3339-01	500	27	108	0.2	400	±30	3.0	TO-247	5.5
2SK2645-01MR	600	9	32	1.2	50	±35	4.0	TO-220F	2.0
2SK2760-01R	600	9	32	1.2	60	±35	4.0	TO-3PF	6.0
2SK2827-01	600	9	32	1.2	60	±35	4.0	TO-220AB	2.0
2SK2834-01	600	9	32	1.2	80	±35	4.0	TO-3P	5.5
2SK2908-01L, S	600	9	32	1.2	60	±35	4.0	T-pack	1.6
2SK2761-01MR	600	10	36	1.0	50	±35	4.0	TO-220F	2.0
2SK3102-01R	600	10	36	1.0	50	±35	4.0	TO-3PF	6.0
2SK2646-01	800	4	16	4.0	80	±35	4.0	TO-220AB	2.0
2SK2647-01MR	800	4	16	4.0	40	±35	4.0	TO-220F	2.0
2SK2762-01L, S	800	4	16	4.0	80	±35	4.0	T-pack	1.6
2SK2763-01	800	4	16	4.0	100	±35	4.0	TO-3P	5.5
2SK2764-01R	800	4	16	4.0	80	±35	4.0	TO-3PF	6.0
2SK3264-01MR	800	7	28	2.0	60	±30	3.0	TO-220F	2.0
2SK2765-01	800	7	28	2.0	125	±35	4.0	TO-3P	5.5
2SK2766-01R	800	7	28	2.0	80	±35	4.0	TO-3PF	6.0
2SK2648-01	800	9	36	1.5	150	±35	4.0	TO-3P	5.5
2SK2649-01R	800	9	36	1.5	100	±35	4.0	TO-3PF	6.0

\*1 R<sub>ds</sub> (on): V<sub>Gs</sub>=10V, \*2 P<sub>D</sub>: T<sub>C</sub>=25°C



# パワー-MOSFET / Power MOSFETs

## ■ パワー-MOSFET Power MOSFET

### FAP-IIS シリーズ FAP-IIS series

高温・連続アバランシェ耐量保証 Repetitive avalanche rated (Continued)

形式 Device type	V <sub>DSS</sub> Volts	I <sub>D</sub> Amps.	I <sub>D</sub> (pulse) Amps.	R <sub>DS</sub> (on) Max. *1 Ohms (Ω)	P <sub>D</sub> *2 Watts	V <sub>GSS</sub> Volts	V <sub>GS</sub> (th) Typ. Volts	パッケージ Package	質量 Net mass Grams
2SK2767-01	900	3.5	14	5.5	80	±35	4.0	TO-220AB	2.0
2SK2768-01L, S	900	3.5	14	5.5	80	±35	4.0	T-pack	1.6
2SK2769-01MR	900	3.5	14	5.5	40	±35	4.0	TO-220F	2.0
2SK2770-01	900	3.5	14	5.5	100	±35	4.0	TO-3P	5.5
2SK2651-01MR	900	6	24	2.5	50	±35	4.0	TO-220F	2.0
2SK2652-01	900	6	24	2.5	125	±35	4.0	TO-3P	5.5
2SK2850-01	900	6	24	2.5	125	±30	3.0	TO-3P	5.5
2SK2653-01R	900	6	24	2.5	80	±35	4.0	TO-3PF	6.0
2SK2654-01	900	8	32	2.0	150	±35	4.0	TO-3P	5.5
2SK2655-01R	900	8	32	2.0	100	±35	4.0	TO-3PF	6.0
2SK3341-01	900	10	40	1.2	310	±30	3.0	TO-247	5.5
2SK3337-01	1000	7	28	2.0	255	±30	3.0	TO-247	5.5

\*1 R<sub>DS</sub> (on): V<sub>GS</sub>=10V, \*2 P<sub>D</sub>: T<sub>C</sub>=25°C

### F-V / FAP-V シリーズ F-V / FAP-V series

内蔵ダイオード高速化/高 dv/dt 耐量 Include FRED / Avalanche rated

形式 Device type	V <sub>DSS</sub> Volts	I <sub>D</sub> Amps.	I <sub>D</sub> (pulse) Amps.	R <sub>DS</sub> (on) Max. *1 Ohms (Ω)	P <sub>D</sub> *2 Watts	V <sub>GSS</sub> Volts	V <sub>GS</sub> (th) Typ. Volts	パッケージ Package	質量 Net mass Grams
2SK1818-MR	250	20	80	0.25	50	±20	3.0	TO-220F	2.0
2SK1276A	250	20	80	0.25	100	±20	3.0	TO-3P	5.5
2SK1277	250	30	120	0.12	150	±20	3.0	TO-3P	5.5
2SK1819-01MR	450	5	20	1.5	35	±25	3.0	TO-220F	2.0
2SK1278	500	10	40	1.1	100	±20	3.0	TO-3P	5.5
2SK2052-R	500	10	40	1.1	80	±20	3.0	TO-3PF	6.0
2SK1279	500	15	60	0.58	125	±20	3.0	TO-3P	5.5
2SK1280	500	18	72	0.5	150	±20	3.0	TO-3P	5.5

\*1 R<sub>DS</sub> (on): V<sub>GS</sub>=10V, \*2 P<sub>D</sub>: T<sub>C</sub>=25°C



■ パワー-MOSFET Power MOSFET

F-III / FAP-III シリーズ (Nチャンネル) F-III / FAP-III series (N channel)

ロジックレベル駆動/アバランシェ耐量保証 Logic level drive / Avalanche rated

形 式 Device type	V <sub>DSS</sub> Volts	I <sub>D</sub> Amps.	I <sub>D</sub> (pulse) Amps.	R <sub>DS</sub> (on) Max. *1 Ohms (Ω)	P <sub>D</sub> *2 Watts	V <sub>GSS</sub> Volts	V <sub>GS</sub> (th) Typ. Volts	パッケージ Package	質 量 Net mass Grams
2SK2248-01L, S	30	10	40	0.06	20	±16	1.5	K-pack	0.6
2SK2249-01L, S	30	10	40	0.06	35	±16	1.5	T-pack	1.6
2SK2516-01L, S	30	50	200	0.013	80	±16	1.5	T-pack	1.6
2SK1083-MR	60	8	32	0.22	20	±20	1.5	TO-220F	2.0
2SK2018-01L, S	60	10	40	0.1	20	±20	1.5	K-pack	0.6
2SK1096-MR	60	13	52	0.12	30	±20	1.5	TO-220F	2.0
2SK1946-01MR	60	45	180	0.022	50	±20	1.5	TO-220F	2.0
2SK2517-01L, S	60	50	200	0.02	80	±20	1.5	T-pack	1.6
2SK2832-01R	60	50	200	0.02	80	±20	1.5	TO-220AB	2.0
2SK2098-01MR	150	20	80	0.08	50	±20	1.5	TO-220F	2.0
2SK2226-01L, S	150	20	80	0.08	80	±20	1.5	T-pack	1.6

\*1 R<sub>DS</sub> (on): V<sub>GS</sub>=10V, \*2 P<sub>D</sub>: T<sub>C</sub>=25°C

FAP-III シリーズ (Pチャンネル) FAP-III series (P channel)

アバランシェ耐量保証 Avalanche rated

形 式 Device type	V <sub>DSS</sub> Volts	I <sub>D</sub> Amps.	I <sub>D</sub> (pulse) Amps.	R <sub>DS</sub> (on) Max. *1 Ohms (Ω)	P <sub>D</sub> *2 Watts	V <sub>GSS</sub> Volts	V <sub>GS</sub> (th) Typ. Volts	パッケージ Package	質 量 Net mass Grams
2SJ472-01L, S	-30	-5	-20	0.4	15	±16	-1.5	K-pack	0.6
2SJ314-01L, S	-60	-5	-20	0.3	20	±20	-1.5	K-pack	0.6
2SJ473-01L, S	-60	-7	-28	0.2	20	±20	-1.5	K-pack	0.6
2SJ474-01L, S	-60	-7	-28	0.2	20	±20	-1.5	T-pack	1.6
2SJ475-01	-60	-25	-100	0.06	50	±20	-1.5	TO-220AB	2.0
2SJ476-01L, S	-60	-25	-100	0.06	50	±20	-1.5	T-pack	1.6
2SJ477-01MR	-60	-25	-100	0.06	40	±20	-1.5	TO-220F	2.0

\*1 R<sub>DS</sub> (on): V<sub>GS</sub>=10V, \*2 P<sub>D</sub>: T<sub>C</sub>=25°C

FAP-III A シリーズ FAP-III A series

高破壊耐量・低オン抵抗 High surge ruggedness

形 式 Device type	V <sub>DSS</sub> Volts	I <sub>D</sub> Amps.	I <sub>D</sub> (pulse) Amps.	R <sub>DS</sub> (on) Max. *1 Ohms (Ω)	P <sub>D</sub> *2 Watts	V <sub>GSS</sub> Volts	V <sub>GS</sub> (th) Typ. Volts	パッケージ Package	質 量 Net mass Grams
2SK1822-01MR	60	20	80	0.07	35	±20	1.5	TO-220F	2.0
2SK2259-01MR	60	40	160	0.03	40	±20	1.5	TO-220F	2.0
2SK2165-01	60	40	160	0.03	100	±20	1.5	TO-3P	5.5
2SK2166-01R	60	40	160	0.03	80	±20	1.5	TO-3PF	6.0
2SK1969-01	60	50	200	0.017	125	±20	1.5	TO-3P	5.5
2SK1823-01R	60	50	200	0.017	80	±20	1.5	TO-3PF	6.0

\*1 R<sub>DS</sub> (on): V<sub>GS</sub>=10V, \*2 P<sub>D</sub>: T<sub>C</sub>=25°C



# パワー-MOSFET / Power MOSFETs

## ■ パワー-MOSFET Power MOSFET

### FAP-IIIIB シリーズ FAP-IIIIB series

超低オン抵抗・高アバランシェ耐量 Low-on resistance

形式 Device type	V <sub>DSS</sub> Volts	I <sub>D</sub> Amps.	I <sub>D</sub> (pulse) Amps.	R <sub>DS</sub> (on) Max. *1 Ohms (Ω)	P <sub>D</sub> *2 Watts	V <sub>GSS</sub> Volts	V <sub>GS</sub> (th) Typ. Volts	パッケージ Package	質量 Net mass Grams
F8006N	20	5×2	60	0.048	2	±12	1	SOP-8	0.2 max
F7007N	30	7	84	0.025	2	±18	1.5	SOP-8	0.2 max
2SK2806-01	30	35	140	0.02	60	±16	1.5	TO-220AB	2.0
2SK2807-01L, S	30	35	140	0.02	60	±16	1.5	T-pack	1.6
2SK2808-01MR	30	35	140	0.02	40	±16	1.5	TO-220F	2.0
2SK2687-01	30	50	200	0.01	60	±16	1.5	TO-220AB	2.0
2SK2688-01L, S	30	50	200	0.01	60	±16	1.5	T-pack	1.6
2SK2689-01MR	30	50	200	0.01	40	±16	1.5	TO-220F	2.0
2SK3363-01	30	50	200	0.0068	80	±20	1.5	TO-220AB	2.0
2SK2890-01MR	30	50	200	0.0068	80	±16	1.5	TO-220F	2.0
2SK2892-01R	30	90	360	0.0055	100	±16	1.5	TO-3PF	6.0
2SK2891-01	30	100	400	0.0055	125	±16	1.5	TO-3P	5.5
2SK2893-01	30	100	400	0.004	150	±16	1.5	TO-3P	5.5
2SK2894-01R	30	100	400	0.004	125	±16	1.5	TO-3PF	6.0
2SK2895-01	60	45	180	0.012	60	±20	1.5	TO-220AB	2.0
2SK2896-01L, S	60	45	180	0.012	60	±20	1.5	T-pack	1.6
2SK2897-01MR	60	45	180	0.012	40	±20	1.5	TO-220F	2.0
2SK2900-01	60	45	180	0.015	60	±30	3.0	TO-220AB	2.0
2SK2901-01L, S	60	45	180	0.015	60	±30	3.0	T-pack	1.6
2SK2902-01MR	60	45	180	0.015	40	±30	3.0	TO-220F	2.0
2SK3362-01	60	50	200	0.01	80	±20	1.5	TO-220AB	2.0
2SK2809-01MR	60	50	200	0.01	50	±20	1.5	TO-220F	2.0
2SK3364-01	60	50	200	0.012	80	±30	3.0	TO-220AB	2.0
2SK2903-01MR	60	50	200	0.012	80	±30	3.0	TO-220F	2.0
2SK2905-01R	60	70	280	0.012	100	±30	3.0	TO-3PF	6.0
2SK2691-01R	60	70	280	0.01	100	±20	1.5	TO-3PF	6.0
2SK2690-01	60	80	320	0.01	125	±20	1.5	TO-3P	5.5
2SK2904-01	60	80	400	0.012	125	±30	3.0	TO-3P	5.5
2SK2898-01	60	100	400	0.007	150	±20	1.5	TO-3P	5.5
2SK2899-01R	60	100	400	0.007	125	±20	1.5	TO-3PF	6.0
2SK2906-01	60	100	400	0.008	150	±30	3.0	TO-3P	5.5
2SK2907-01R	60	100	400	0.008	125	±30	3.0	TO-3PF	6.0
2SK3216-01	100	50	200	0.025	135	±30	3.0	TO-220AB	2.0
2SK3217-01MR	100	50	200	0.025	70	±30	3.0	TO-220F	2.0
2SK3218-01	150	40	160	0.043	135	±30	3.0	TO-220AB	2.0
2SK3219-01MR	150	40	160	0.043	70	±30	3.0	TO-220F	2.0
2SK3262-01MR	200	20	80	0.1	45	±20	1.5	TO-220F	2.0

\*1 R<sub>DS</sub> (on): V<sub>GS</sub>=10V, \*2 P<sub>D</sub>: T<sub>C</sub>=25°C

### トレンチMOSFET Trench power MOSFET

形式 Device type	V <sub>DSS</sub> Volts	I <sub>D</sub> Amps.	I <sub>D</sub> (pulse) Amps.	R <sub>DS</sub> (on) Max. * Ohms (Ω)	P <sub>D</sub> Watts	V <sub>GSS</sub> Volts	V <sub>GS</sub> (th) Typ. Volts	パッケージ Package	質量 Net mass Grams
2SK3273-01MR	60	70	280	0.0065	70	±30	3.0	TO-220F	2.0
2SK3270-01	60	80	320	0.0065	135	±30	3.0	TO-220AB	2.0
2SK3272-01L, S	60	80	320	0.0065	135	±30	3.0	T-pack	1.6
2SK3272-01SJ	60	80	320	0.0065	135	±30	3.0	D2-pack	1.6
2SK3271-01	60	100	400	0.0065	155	±30	3.0	TO-3P	5.5

\* R<sub>DS</sub> (on): V<sub>GS</sub>=10V



■ パワーMOSFET Power MOSFET

高機能パワーMOSFET Intelligent power MOSFET

形 式 Device type	V <sub>DSS</sub> Volts	I <sub>D</sub> Amps.	I <sub>D</sub> (pulse) Amps.	R <sub>DS</sub> (on) Max. * Ohms (Ω)	P <sub>D</sub> Watts	V <sub>GSS</sub> Volts	V <sub>GS</sub> (th) Typ. Volts	パッケージ Package	質 量 Net mass Grams
F5018	40	8	-	0.14	15	-	-	K-pack	0.6
F5019	40	12	-	0.14	30	-	-	T-pack	1.6
F5020	40	3	-	0.40	10	-	-	K-pack	0.6
F5022	70	3	-	0.55	12	-	-	K-pack	0.6
F5023	40	12	-	0.14	30	-	-	TO-220AB	2.0
F5028	40	28	-	0.04	50	-	-	T-pack	1.6
F5029	40	18	-	0.07	38	-	-	TO-220AB	2.0
F5030	40	18	-	0.07	38	-	-	T-pack	1.6
F5031	40	14	-	0.07	20	-	-	K-pack	0.6
F5032	40	6	-	0.20	12	-	-	K-pack	0.6
F5033	40	1	-	0.60	0.60	-	-	SOP-8	0.2
F5041	40	1	-	0.60	1.5	-	-	SOP-8	0.2
F5042	40	8	-	0.14	15	-	-	K-pack	0.6
F5043	40	12	-	0.14	30	-	-	T-pack	1.6

\* R<sub>DS</sub> (on): V<sub>CC</sub>=12V

IPS シリーズ (インテリジェントパワースイッチ) IPS series ( Intelligent power switches )

自己保護機能・診断機能内蔵 Self protection and safety check

形 式 Device type	V <sub>DSS</sub> Volts	I <sub>D</sub> Amps.	I <sub>D</sub> (pulse) Amps.	R <sub>DS</sub> (on) Max. * Ohms (Ω)	P <sub>D</sub> Watts	V <sub>GSS</sub> Volts	V <sub>GS</sub> (th) Typ. Volts	パッケージ Package	質 量 Net mass Grams
F5016H	60	3	-	0.16	30	-	-	TO-220F5	2.3
F5017H	60	6	-	0.16	30	-	-	TO-220F5	2.3
F5021H	50	3	-	0.16	30	-	-	TO-220F5	2.3
F5038H	50	3	-	0.16	30	-	-	TO-220F5	2.3
F5044H	50	1	-	0.12	1.5	-	-	SOP-8	0.2

\* R<sub>DS</sub> (on): V<sub>CC</sub>=12V