



# 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	Q <sub>g</sub> nC	パッケージ Package	質量 Net mass Grams
2SK3598-01	100	20	80	0.062	50	±20	3 to 5	22	TO-220AB	2.0
2SK3599-01MR	100	20	80	0.062	25	±20	3 to 5	22	TO-220F	2.0
2SK3600-01L, S	100	20	80	0.062	50	±20	3 to 5	22	T-pack	1.6
2SK3601-01	100	20	80	0.062	50	±20	3 to 5	22	TFP	0.8
2SK3644-01	100	30	120	0.044	75	±20	3 to 5	32	TO-220AB	2.0
2SK3645-01MR	100	30	120	0.044	40	±20	3 to 5	32	TO-220F	2.0
2SK3646-01L, S	100	30	120	0.044	75	±20	3 to 5	32	T-pack	1.6
2SK3647-01	100	30	120	0.044	75	±20	3 to 5	32	TFP	0.8
2SK3586-01	100	50	200	0.025	135	±20	3 to 5	52	TO-220AB	2.0
2SK3587-01MR	100	50	200	0.025	70	±20	3 to 5	52	TO-220F	2.0
2SK3588-01L, S	100	50	200	0.025	135	±20	3 to 5	52	T-pack	1.6
2SK3589-01	100	50	200	0.025	135	±20	3 to 5	52	TFP	0.8
2SK3602-01	150	16	64	0.105	50	±20	3 to 5	21	TO-220AB	2.0
2SK3603-01MR	150	16	64	0.105	25	±20	3 to 5	21	TO-220F	2.0
2SK3604-01L, S	150	16	64	0.105	50	±20	3 to 5	21	T-pack	1.6
2SK3605-01	150	16	64	0.105	50	±20	3 to 5	21	TFP	0.8
2SK3648-01	150	23	92	0.07	75	±20	3 to 5	34	TO-220AB	2.0
2SK3649-01MR	150	23	92	0.07	40	±20	3 to 5	34	TO-220F	2.0
2SK3650-01L, S	150	23	92	0.07	75	±20	3 to 5	34	T-pack	1.6
2SK3474-01	150	23	92	0.07	75	±20	3 to 5	34	TFP	0.8
2SK3537-01MR	150	23	92	0.07	40	±20	1 to 2.5	46	TO-220F	2.0
2SK3590-01	150	40	160	0.041	135	±20	3 to 5	52	TO-220AB	2.0
2SK3591-01MR	150	40	160	0.041	70	±20	3 to 5	52	TO-220F	2.0
2SK3592-01L, S	150	40	160	0.041	135	±20	3 to 5	52	T-pack	1.6
2SK3593-01	150	40	160	0.041	135	±20	3 to 5	52	TFP	0.8
2SK3606-01	200	13	52	0.17	50	±20	3 to 5	21	TO-220AB	2.0
2SK3607-01MR	200	13	52	0.17	25	±20	3 to 5	21	TO-220F	2.0
2SK3608-01L, S	200	13	52	0.17	50	±20	3 to 5	21	T-pack	1.6
2SK3609-01	200	13	52	0.17	50	±20	3 to 5	21	TFP	0.8
2SK3594-01	200	30	120	0.066	135	±20	3 to 5	51	TO-220AB	2.0
2SK3595-01MR	200	30	120	0.066	70	±20	3 to 5	51	TO-220F	2.0
2SK3596-01L, S	200	30	120	0.066	135	±20	3 to 5	51	T-pack	1.6
2SK3597-01	200	30	120	0.066	135	±20	3 to 5	51	TFP	0.8
2SK3610-01	250	10	40	0.26	50	±20	3 to 5	21	TO-220AB	2.0
2SK3611-01MR	250	10	40	0.26	25	±20	3 to 5	21	TO-220F	2.0
2SK3612-01L, S	250	10	40	0.26	50	±20	3 to 5	21	T-pack	1.6
2SK3613-01	250	10	40	0.26	50	±20	3 to 5	21	TFP	0.8
2SK3554-01	250	25	100	0.1	135	±20	3 to 5	44	TO-220AB	2.0
2SK3555-01MR	250	25	100	0.1	70	±20	3 to 5	44	TO-220F	2.0
2SK3556-01L, S	250	25	100	0.1	135	±20	3 to 5	44	T-pack	1.6
2SK3535-01	250	25	100	0.1	135	±20	3 to 5	44	TFP	0.8
2SK3651-01MR	250	25	100	0.1	135	±20	3 to 5	44	TO-3PF	6.0
2SK3580-01MR	300	12	48	0.28	35	±20	3 to 5	27	TO-220F	2.0
2SK3514-01	450	8	32	0.65	75	±30	3 to 5	22	TO-220AB	2.0
2SK3515-01MR	450	8	32	0.65	40	±30	3 to 5	22	TO-220F	2.0
2SK3516-01L, S	450	8	32	0.65	75	±30	3 to 5	22	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

### 記号 Letter symbols

V<sub>DSS</sub>: ドレイン・ソース電圧

I<sub>D</sub>: ドレイン電流

I<sub>D</sub>(pulse): バルスドレイン電流

R<sub>DS</sub>(on): ドレイン・ソース オン抵抗

Drain-source voltage

Continuous drain current

Pulsed drain current

Drain-source on-state resistance

P<sub>D</sub>: 許容損失電力

V<sub>GSS</sub>: ゲート・ソース電圧

V<sub>GS</sub>(th): ゲートしきい値電圧

Q<sub>g</sub>: トータルゲートチャージ量

Maximum power dissipation

Gate-source peak voltage

Gate threshold voltage

Total gate charge



## ■ パワー-MOSFET Power MOSFET

Super FAP-Gシリーズ Super FAP-G series (Continued)

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

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	Q <sub>g</sub> Typ. nC	パッケージ Package	質量 Net mass Grams
2SK3517-01	500	5	20	1.5	45	±30	3 to 5	15	TO-220AB	2.0
2SK3518-01MR	500	5	20	1.5	20	±30	3 to 5	15	TO-220F	2.0
2SK3519-01	500	8	32	0.85	65	±30	3 to 5	20	TO-220AB	2.0
2SK3520-01MR	500	8	32	0.85	35	±30	3 to 5	20	TO-220F	2.0
2SK3521-01L, S	500	8	32	0.85	65	±30	3 to 5	20	T-pack	1.6
2SK3468-01	500	12	48	0.52	95	±30	3 to 5	30	TO-220AB	2.0
2SK3469-01MR	500	12	48	0.52	50	±30	3 to 5	30	TO-220F	2.0
2SK3512-01L, S	500	12	48	0.52	95	±30	3 to 5	30	T-pack	1.6
2SK3504-01	500	14	56	0.46	115	±30	3 to 5	33	TO-220AB	2.0
2SK3505-01MR	500	14	56	0.46	60	±30	3 to 5	33	TO-220F	2.0
2SK3581-01L, S	500	14	56	0.46	115	±30	3 to 5	33	T-pack	1.6
2SK3682-01	500	19	76	0.38	270	±30	3 to 5	32	TO-220AB	2.0
2SK3683-01MR	500	19	76	0.38	95	±30	3 to 5	32	TO-220F	2.0
2SK3684-01L, S	500	19	76	0.38	270	±30	3 to 5	32	T-pack	1.6
2SK3685-01	500	19	76	0.38	235	±30	3 to 5	32	TO-247	5.5
2SK3522-01	500	21	84	0.26	155	±30	3 to 5	54	TO-247	5.5
2SK3523-01R	500	21	84	0.26	120	±30	3 to 5	54	TO-3PF	6.0
▲ 2SK3680-01	500	52	208	0.11	600	±30	3 to 5	118	TO-247	5.5
2SK3524-01	600	6	24	1.2	65	±30	3 to 5	20	T-220AB	2.0
2SK3525-01MR	600	6	24	1.2	35	±30	3 to 5	20	TO-220F	2.0
2SK3526-01L, S	600	6	24	1.2	80	±30	3 to 5	20	T-pack	1.6
2SK3501-01	600	10	40	0.75	95	±30	3 to 5	30	TO-220AB	2.0
2SK3502-01MR	600	10	40	0.75	50	±30	3 to 5	30	TO-220F	2.0
2SK3513-01L, S	600	10	40	0.75	95	±30	3 to 5	30	T-pack	1.6
2SK3450-01	600	12	48	0.65	115	±30	3 to 5	34	TO-220AB	2.0
2SK3451-01MR	600	12	48	0.65	60	±30	3 to 5	34	TO-220F	2.0
2SK3686-01	600	16	64	0.54	270	±30	3 to 5	33	TO-220AB	2.0
2SK3687-01MR	600	16	64	0.54	97	±30	3 to 5	33	TO-220F	2.0
2SK3688-01L, S	600	16	64	0.54	270	±30	3 to 5	33	T-pack	1.6
2SK3689-01	600	16	64	0.54	235	±30	3 to 5	33	TO-247	5.5
2SK3527-01	600	17	68	0.37	155	±30	3 to 5	54	TO-247	5.5
2SK3528-01R	600	17	68	0.37	120	±30	3 to 5	54	TO-3PF	6.0
▲ 2SK3681-01	600	43	172	0.16	600	±30	3 to 5	118	TO-247	5.5
2SK3673-01MR	700	10	40	1.18	60	±30	3 to 5	35	TO-220F	2.0
2SK3677-01MR	700	12	48	0.93	70	±30	3 to 5	34	TO-220F	2.0
2SK3529-01	800	7	28	1.9	195	±30	3 to 5	25	TO-220AB	2.0
2SK3530-01MR	800	7	28	1.9	70	±30	3 to 5	25	TO-220F	2.0
2SK3531-01	900	6	24	2.5	195	±30	3 to 5	25	TO-220AB	2.0
2SK3532-01MR	900	6	24	2.5	70	±30	3 to 5	25	TO-220F	2.0
2SK3676-01L, S	900	6	24	2.5	70	±30	3 to 5	25	T-pack	1.6
2SK3533-01	900	7	28	2	225	±30	3 to 5	28	TO-220AB	2.0
2SK3534-01MR	900	7	28	2	80	±30	3 to 5	28	TO-220F	2.0
2SK3674-01L, S	900	7	28	2	225	±30	3 to 5	28	T-pack	1.6
2SK3675-01	900	7	28	2	195	±30	3 to 5	28	TO-247	5.5
2SK3678-01	900	9	36	1.58	270	±30	3 to 5	32	TO-220AB	2.0
2SK3679-01MR	900	9	36	1.58	95	±30	3 to 5	32	TO-220F	2.0
2SK3549-01	900	10	40	1.4	270	±30	3 to 5	37	TO-247	5.5
2SK3550-01R	900	10	40	1.4	130	±30	3 to 5	37	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