

Power MOS FET (π -MOS III-5)

F1

Application	Type No.	Maximum Rating				R _{DS} (ON)				V _{th} (I _D =1mA) (V)
		I _D (A)	V _{DS} (V)	P _D (W)	Package	(Ω)		V _{GS} (V)	I _D (A)	
						TYP.	Max.			
Ballast MOTOR Drive UPS	○ 2SK2146	2	250	25	TO-220(NIS)	1.2	2.0	10	1	2.0~4.0
	* ○ 2SK2230	2	250	1.2	TPS	1.2	2.0	10	1	2.0~4.0
	* ○ 2SK2235	2	250	20	POWER-MOLD	1.2	2.0	10	1	2.0~4.0
	○ 2SK1766	10	250	40	TO-220(NIS)	0.4	0.6	10	5	1.5~3.5
	○ 2SK1486	32	300	200	TO-3P(L)	0.08	0.095	10	16	2.0~4.0
AC 115V Input Switching Power Supply	○ 2SK1854	6	400	40	TO-220(NIS)	0.8	1.0	10	2.5	1.5~3.5
	○ 2SK1805	7	500	45	TO-220(NIS)	0.78	0.85	10	4	2.0~4.0
	○ 2SK1574	8	500	125	TO-220AB	0.78	0.85	10	4	2.0~4.0
	○ 2SK1864	8	500	100	TO-220FL/SM	0.78	0.85	10	4	2.0~4.0
	○ 2SK1851	8	500	80	TO-3P(S)	0.80	1.00	10	5	2.0~4.0
	○ 2SK1487	10	450	125	TO-3P(N)	0.64	1.00	10	5	2.0~4.0
	○ 2SK1488	10	500	125	TO-3P(N)	0.80	1.00	10	5	2.0~4.0
	○ 2SK1855	12	500	125	TO-3P(N)	0.55	0.70	10	6	2.0~4.0
	○ 2SK1865	12	500	100	TO-220FL/SM	0.55	0.0	10	6	2.0~4.0
	○ 2SK1531	15	500	150	TO-3P(N)	0.38	0.45	10	7	2.0~4.0
	○ 2SK1745	18	500	150	TO-3P(N)	0.29	0.36	10	9	2.0~4.0
	○ 2SK1544	25	500	200	TO-3P(L)	0.15	0.20	10	13	1.5~3.5
	○ 2SK1787	3.5	600	40	TO-220(NIS)	2.1	2.5	10	2.5	2.1~4.0
	○ 2SK1913	4	600	40	TO-220(NIS)	0.9	1.8	10	2.5	2.1~4.0

*: Under development ○ : High Strength Diode

Power MOS FET (L²- π -MOS IV)

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Application	Type No.	Maximum Rating			Package	Rds (ON)				Rds (ON)				Vth (I _o =1mA) (V)
		I _o (A)	V _{DS} (V)	P _D (W)		(Ω)		V _{GS} (V)	I _D (A)	(Ω)		V _{GS} (V)	I _D (A)	
						TYP.	Max.			TYP.	Max.			
DC/DC converter Motor driver	2SJ238	-1	-60	0.5	POWER-MINI	0.70	0.85	-10	-0.5	10	1.40	-4	-0.5	-0.8~-2.0
	2SK1717	2	60	0.5	POWER-MINI	0.28	0.37	10	1	0.39	0.53	4	1	0.8~2.0
	2SJ239	-5	-60	20	POWER MOLD	0.21	0.25	-10	-2.5	0.31	0.40	-4	-2.5	-0.8~-2.0
	2SK1719	5	60	20	POWER MOLD	0.08	0.11	10	2.5	0.11	0.16	4	2.5	0.8~2.0
	2SK1882	25	60	40	TO-220(NIS)	0.030	0.050	10	12	0.050	0.080	4	12	0.8~2.0
	2SJ240	-20	-60	45	TO-220(NIS)	0.035	0.045	-10	-10	0.058	0.090	-4	-10	-0.8~-2.0
	2SJ241	-20	-60	100	TO-220FL/SM	0.035	0.045	-10	-10	0.058	0.035	-4	-10	-0.8~-2.0
	2SK1542	45	60	125	TO-220AB	0.015	0.020	10	20	0.022	0.035	4	20	0.8~2.0
	2SK1653	45	60	45	TO-220(NIS)	0.015	0.020	10	20	0.022	0.035	4	20	0.8~2.0
	2SK1792	45	60	100	TO-220FL/SM	0.015	0.020	10	20	0.022	0.080	4	20	0.8~2.0
	2SJ312	-14	-60	40	TO-220FL/SM	0.080	0.12	-10	-7	0.13	0.19	-4	-5	-0.8~-2.0
	2SJ304	-14	-60	40	TO-220(NIS)	0.080	0.12	-10	-7	0.13	0.19	-4	-5	-0.8~-2.0
	2SK1997	36	60	40	TO-220(NIS)	0.022	0.030	10	18	0.034	0.055	4	15	0.8~2.0
	*2SK1879	45	60	125	TO-3P(N)	0.022	0.030	10	20	—	—	—	—	1.5~3.5
	2SK1998	45	60	125	TO-3P(N)	0.022	0.030	10	20	0.034	0.055	4	15	0.8~2.0

*: 10V drive type

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Application	Type No.	Maximum Rating			Package	R _{DS} (ON)				R _{DS} (ON)				V _{th} (I _D =1mA) (V)
		I _D (A)	V _{DS} (V)	P _D (W)		(Ω)		V _{GS} (V)	I _D (A)	(Ω)		V _{GS} (V)	I _D (A)	
						TYP.	Max.			TYP.	Max.			
DC/DC converter	*2SK2030	5	60	20	POWER MOLD	0.10	0.14	10	2.5	—	—	—	—	2.0~4.0
	2SJ315	-5	-60	20	POWER MOLD	0.21	0.25	-10	-2.5	0.31	0.40	-4	-2.5	-0.8~-2.0

*: 10V drive type

 π -MOS IV

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Application	Type No.	Maximum Rating			Package	R _{DS} (ON)				V _{th} Ⓢ (I _D =1mA) (V)	C _g TYP. (nc)
		I _D (A)	V _{DS} (V)	P _D (W)		(Ω)		V _{GS} (V)	I _D (A)		
						TYP.	Max.				
AC 115V Input Switching Power Supply	2SK2236	5	500	40	TO-220(NIS)	1.2	1.6	10	2.5	2.0-4.0	17
	2SK2237	7	500	45	TO-220(NIS)	0.6	0.8	10	4	2.0-4.0	30
	*2SK2149	10	500	125	TO-3P(N)	0.6	0.8	10	5	2.0-4.0	30
	*2SK2150	15	500	150	TO-3P(N)	0.29	0.4	10	7	2.0-4.0	50
	2SK2057	20	500	150	TO-3P(N)	0.24	0.31	10	10	2.0-4.0	65

* Under development