

POWER MOS FET

General amplifier

Package code	Type No.	Ratings		Characteristics			Status
		V _{DS} (V _{DSX}) (V)	I _D (A)	g _{fs} (S) typ	R _{DS(ON)} (Ω) typ	C _{iss} (PF) typ	
TO-126	2SK1197	100	0.5	150 m	10	10	○
TO-3P	2SJ160	-120	-7	1.0	1.0	900	○
	2SJ161	-140	-7	1.0	1.0	900	○
	2SJ162	-160	-7	1.0	1.0	900	○
	2SJ351	-180	-8	1.0	—	1000	○
	2SJ352	-200	-8	1.0	—	1000	○

Package code	Type No.	Ratings		Characteristics			Status
		V _{DS} (V _{DSX}) (V)	I _D (A)	g _{fs} (S) typ	R _{DS(ON)} (Ω) typ	C _{iss} (PF) typ	
TO-3P	2SK1056	(120)	7	1.0	1.0	600	○
	2SK1057	(140)	7	1.0	1.0	600	○
	2SK1058	(160)	8	1.0	1.0	600	○
	2SK2220	180	8	1.0	—	700	○
	2SK2221	200	8	1.0	—	700	○

Array

Package code	Type No.	Ratings			Characteristics			Status
		Pro- cess	V _{DS} (V) (V _{DSX})	I _D (A)	R _{DS (ON)} (Ω)max		C _{iss} (PF) typ	
					4V	10 V (2.5 V)		
SP-10	4AK15	D3	60	8.0	0.095	0.07	860	○
	4AK16	D3	60	5.0	0.25	0.18	400	○
	4AK17	D3	60	10	0.065	0.45	1400	○
	4AK18	D3	60	2.5	0.53	0.38	240	○
	4AK19	D3	100	5.0	0.6	0.5	—	○
	4AK20	D3	100	5.0	0.35	0.25	525	○
	4AK21	D3	100	8.0	0.125	0.09	1300	○
	4AK22	D3	120	3.0	0.55	0.4	420	○
	4AK25	D3	60	1.5	0.6	0.45	140	○
	4AK27	D4	60	5	0.2	0.15	390	○
	4AM11 (Nch/Pch)	D3	60/-60	5.0/-5.0	0.24/0.27	0.17/0.2	400/900	○
	4AM12 (Nch/Pch)	D3	60/-60	8.0/-8.0	0.11/0.18	0.075/0.09	860/1400	○

Package code	Type No.	Ratings			Characteristics			Status
		Process	V _{DS} (V) (V _{DSX})	I _D (A)	R _{DS} (ON)(Ω)max		C _{iss} (PF) typ	
			4V		10 V (2.5 V)			
SP-10	4AM13 (Nch/Pch)	D3	60/-60	3.0/-3.0	0.5/0.55	0.35/0.4	240/425	○
SP-12	4AJ11	D3	-60	8.0	0.17	0.13	1400	○
	4AK26	D3	60	8.0	0.075	0.06	1400	△
	4AM16 (Nch/Pch)	D3	60/-60	8.0/-8.0	0.24/0.27	0.17/0.2	400/850	△
	4AM17 (Nch/Pch)	D3	60/-60	8.0/-8.0	0.19/0.2	0.17/0.2	—/—	○
	6AM11 (Nch/Pch)	D3	60/-60	5.0/-5.0	0.24/0.27	0.17/0.2	400/900	○
SP-12TA	4AK23	D3	100	5.0	0.25	0.25	400	○
	4AM14 (Nch/Pch)	D3	60/-60	8.0/-8.0	0.24/0.27	0.17/0.2	400/900	○
	4AM15 (Nch/Pch)	D3	200/-200	4.0/-4.0	—/—	0.5/0.7	600/800	○
	6AM12 (Nch/Pch)	D3	60/-60	7.0/-7.0	0.24/0.27	0.17/0.2	400/900	○
	6AM13 (Nch/Pch)	D3	60/-60	10/-10	0.11/0.18	0.075/0.12	860/1400	○
	6AM14 (Nch/Pch)▼	D3	60/-60	7.0/-7.0	0.2/0.16	(0.5/0.3)	500/1450	○

Thermal FET

Package code	Type No.	Ratings		Characteristics			Status
		V _{DS} (V)	I _D (A)	4V R _{DS} (ON) (Ω)		T _{SD} (°C)typ	
				typ	max		
TO-220AB	HAF2001	60	20	0.05	0.065	175	○
TO-220FM	HAF2002	60	20	0.05	0.065	175	○

IGBT

General switching

Package code	Type No.	Ratings		Characteristics		Status
		V _{CE} (V)	I _c (A)	V _{CE (sat)} (V) typ	t _{on} (μs) typ	
TO-220 AB	GN6010A	600	10	3.0	0.25	※
	GN6015A	600	15	3.0	0.3	※
	2SH11	600	10	2.6	0.9	△
	2SH12	600	15	2.6	1.0	△
	2SH13	600	20	2.6	1.0	△
	2SH17	600	12	2.0	2.3	△
	2SH18	600	18	2.0	2.5	△
	2SH19	600	24	2.0	2.5	△
TO-3P	GN6020C	600	20	3.0	0.4	※
	GN6030C	600	30	3.0	0.4	※
	GN12015C	1200	15	3.5	0.4	※

Package code	Type No.	Ratings		Characteristics		Status
		V _{CE} (V)	I _C (A)	V _{CE (sat)} (V) typ	t _{on} (μs) typ	
TO-3P	2SH14	600	30	2.6	1.2	△
	2SH15	600	50	2.6	1.2	△
	2SH20	600	36	2.0	2.5	△
	2SH21	600	50	2.0	2.7	△
TO-3PL	GN6050E	600	50	3.0	0.6	※
	GN6075E	600	75	3.0	0.7	※
	GN12030E	1200	30	3.5	0.6	※
	GN12050E	1200	50	3.5	0.9	※
	2SH16	600	75	2.6	1.6	○
	2SH22	600	75	2.0	2.7	△

FET MODULE

General switching

Package code	Type No.	Ratings		Characteristics			Status
		V _{DS} (V) (V _{DSX})	I _D (A)	10V _{DS} (ON) (Ω)		C _{iss} (PF) typ	
				typ	max		
LF-F	PM45302F▲	450	30	0.13	0.2	6150	○
	PM50302F▲	500	30	0.15	0.2	6150	○
LF-C	PM45502C▲	450	50	0.08	0.12	10250	○
	PM50502C▲	500	50	0.09	0.12	10250	○
LF-J	PM4550J▲	450	50	0.14	0.18	6600	△
	PM4575J▲	450	75	0.1	0.12	9600	△
	PM5050J▲	500	50	0.14	0.18	6600	△

Package code	Type No.	Ratings		Characteristics			Status
		V _{DS} (V) (V _{DSX})	I _O (A)	10V _{DS} (ON) (Ω)		C _{iss} (PF) typ	
				typ	max		
LF-J	PM5075J▲	500	75	0.1	0.12	9600	△
LF-K	PM45100K▲	450	100	0.08	0.1	14600	△
	PM45150K▲	450	150	0.06	0.08	—	△
	PM50100K▲	500	100	0.08	0.1	14600	△
	PM50150K▲	500	150	0.06	0.08	—	△