

1.6 Power MOSFET Arrays

For the ultimate in high density packaging, Hitachi produces both fully moulded 10-pin SIL array containing 4 logic level DIII-Series MOSFETs and in condensed 12-pin SIL array

containing 6 logic level DIII-Series MOSFETs. These are very suitable for full bridge switching applications.

Table 11 : Power MOSFET Array Typical Characteristics (per Transistor)

Package	Type Number	Absolute Maximum Ratings				Electrical Characteristics (typ.)								Notes
		VDSS (V)	VGSS (V)	ID (A)	Pch * (W)	4V RDS(on)** (Ω)		10V RDS(on)** (Ω)		lyfsl (S) **	ton (ns)	toff (ns)		
						typ.	max.	typ.	max.					
SP-10	(A)	4AK17	60	±20	10	28	0.04	0.065	0.033	0.045	17	110	470	2SK972
		4AK15			8		0.075	0.095	0.055	0.07	12	80	300	2SK971
		4AK16			5		0.17	0.25	0.12	0.18	6	60	230	2SK970
		4AK18			2.5		0.4	0.53	0.25	0.38	2	19	120	2SK973
	(E)	4AK25	60	±20	1.5	24	0.47	0.6	0.35	0.45	1.5	15	80	2SK975
	(B)	4AM13	60	±20	3	28	0.35	0.5	0.25	0.35	2.5	24	120	2SK973
			-60		-3		0.4	0.55	0.28	0.4		30	260	2SJ182
		4AM11	60		5		0.18	0.24	0.13	0.17	4.5	35	245	2SK970
			-60		-5		0.2	0.27	0.15	0.2	5	43	265	2SJ172
		4AM12	60		8		0.08	0.11	0.06	0.075	9	55	300	2SK971
			-60		-8		0.135	0.18	0.09	0.12	7.5	100	400	2SJ173
	(A)	4AK20	100	±20	5	28	0.25	0.35	0.2	0.25	5	40	250	2SK1300
		4AK21			8	28	0.09	0.125	0.07	0.09	10	72	440	2SK1302
		4AK22			3	28	0.35	0.55	0.3	0.4	3.5	25	200	2SK1254
SP-12	(D)	6AM11	60	±20	5	36	0.18	0.24	0.13	0.17	4.5	35	245	2SK970
			-60		-5		0.2	0.27	0.15	0.2	5	43	265	2SJ172
SP-12TA	(E)	4AM14	60	±20	8	32	0.18	0.24	0.13	0.17	4.5	35	245	2SK970
			-60		-8		0.2	0.27	0.15	0.2	5	43	265	2SJ172
	(D)	6AM12	60	±20	7	42	0.19	0.24	0.13	0.17	5.5	50	230	2SK970
			-60		-7		0.2	0.27	0.15	0.2	6	58	265	2SJ172
		6AM13	60		10		0.08	0.11	0.06	0.075	9.5	60	290	2SK971
			-60		-10		0.12	0.18	0.09	0.12	8	115	410	2SJ173
	(A)	4AK23	100	±20	5	32	0.25	0.4	0.2	0.3	5.5	37	245	2SK1300
	(E)	4AM15	200	±20	4	32	-	-	0.33	0.5	2.5	50	105	2SK1957
			-200		-4		0.7	0.9	3	70	145	-		

Notes :

* : Value at Tc = 25°C

() : Under development (specification may change without notice)