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Device	Package type	Applications	Absolute maximum ratings						Electrical characteristics (T _a = 25 °C)							
			V _{CEO} (V)	V _{CE0} (V)	V _{EB0} (V)	I _C (A)	P _C (W)	T _J (°C)	I _{CBO} max @ V _{CB}		hFE @ V _{CE} · I _C			f _T @ V _{CE} · I _C		
									I _{CBO} max (μA)	V _{CB} (V)	hFE	V _{CE} (V)	I _C (mA)	f _T (MHz)	V _{CE} (V)	I _C (mA)
2SB632K	TO126	Audio power amplifier, medium-speed switch	35	35	5	2.0	10.0†	150	1.0	20	60 to 320	2	500	45	10	50
2SD612K	TO126	Audio power amplifier, medium-speed switch	35	35	5	2.0	10.0†	150	1.0	20	60 to 320	2	500	100	10	50
2SA1692*	TO126LP	Audio power amplifier	30	25	15	2.0	15.0†	150	1.0	20	500 to 1200	5	100	110	10	50
2SC3807	TO126LP	High-gain audio amplifier	30	25	15	2.0	15.0†	150	1.0	20	800 to 3200	5	500	260	10	50
2SC3808	TO126LP	High-gain audio amplifier	80	60	15	2.0	15.0†	150	1.0	50	800 to 3200	5	500	170	10	50
2SB511	TO220	Audio power amplifier	35	35	5	1.5	10.0†	150	100.0	20	40 to 320	2	1000	8	5	500
2SD325	TO220	Audio power amplifier	35	35	5	1.5	10.0†	150	100.0	20	40 to 320	2	1000	8	5	500
2SB514	TO220	Audio power amplifier	50	50	5	2.0	20.0†	150	100.0	20	40 to 320	2	1000	8	5	500
2SD330	TO220	Audio power amplifier	50	50	5	2.0	20.0†	150	100.0	20	40 to 320	2	1000	8	5	500
2SA1011	TO220	100 W audio power amplifier	180	160	6	1.5	25.0†	150	10.0	120	60 to 200	5	300	100	10	50
2SC2344	TO220	100 W audio power amplifier	180	160	6	1.5	25.0†	150	10.0	120	60 to 200	5	300	100	10	50
2SB507	TO220	Audio power amplifier	60	60	5	3.0	30.0†	150	100.0	20	40 to 320	2	1000	8	5	500
2SD313	TO220	Audio power amplifier	60	60	5	3.0	30.0†	150	100.0	20	40 to 320	2	1000	8	5	500
2SB1273	TO220	Audio power amplifier	60	60	6	3.0	30.0†	150	100.0	40	70 to 280	5	500	100	5	500
2SD1912	TO220	Audio power amplifier	60	60	6	3.0	30.0†	150	100.0	40	70 to 280	5	500	100	5	500
2SB1346	TO220	Audio power amplifier	60	60	6	3.0	30.0†	150	100.0	40	70 to 280	5	1000	40	5	500
2SD2027	TO220	Audio power amplifier	60	60	6	3.0	30.0†	150	100.0	40	70 to 280	5	1000	8	5	500
2SB633	TO220	High-voltage switch, 25 to 35 W audio power amplifier	100	85	6	6.0	40.0†	150	100.0	40	40 to 320	5	1000	15	5	1000
2SD613	TO220	High-voltage switch, 25 to 35 W audio power amplifier	100	85	6	6.0	40.0†	150	100.0	40	40 to 320	5	1000	15	5	1000
2SA1606	TO220ML	High-voltage switch, 100 W audio output driver	180	160	6	1.5	15.0†	150	10.0	120	60 to 200	5	300	100	10	50
2SC4159	TO220ML	High-voltage switch, 100 W audio output driver	180	160	6	1.5	15.0†	150	10.0	120	60 to 200	5	300	100	10	50
2SB1274	TO220ML	Audio power amplifier	60	60	6	3.0	20.0†	150	100.0	40	70 to 280	5	500	100	5	500
2SD1913	TO220ML	Audio power amplifier	60	60	6	3.0	20.0†	150	100.0	40	70 to 280	5	500	100	5	500
2SB1133	TO220ML	Audio power amplifier	60	60	6	3.0	25.0†	150	100.0	40	70 to 280	5	500	40	5	500
2SD1666	TO220ML	Audio power amplifier	60	60	6	3.0	25.0†	150	100.0	40	70 to 280	5	500	8	5	500
2SD1940	TO220ML	High-voltage switch, 25 to 35 W audio power amplifier	100	85	6	6.0	25.0†	150	100.0	40	60 to 320	5	1000	15	5	1000
2SB775	TO3PB	35 W audio power amplifier	100	85	6	6.0	60.0†	150	100.0	40	60 to 200	5	1000	18	5	1000
2SD895	TO3PB	35 W audio power amplifier	100	85	6	6.0	60.0†	150	100.0	40	60 to 200	5	1000	15	5	1000
2SB776	TO3PB	40 W audio power amplifier	120	100	6	7.0	70.0†	150	100.0	80	60 to 200	5	1000	15	5	1000
2SD896	TO3PB	40 W audio power amplifier	120	100	6	7.0	70.0†	150	100.0	80	60 to 200	5	1000	15	5	1000
2SB816	TO3PB	50 W audio power amplifier	150	120	6	8.0	80.0†	150	100.0	80	60 to 200	5	1000	15	5	1000
2SD1046	TO3PB	50 W audio power amplifier	150	120	6	8.0	80.0†	150	100.0	80	60 to 200	5	1000	15	5	1000
2SB817	TO3PB	60 W audio power amplifier	160	140	6	12.0	100.0†	150	100.0	80	60 to 200	5	1000	15	5	1000
2SD1047	TO3PB	60 W audio power amplifier	160	140	6	12.0	100.0†	150	100.0	80	60 to 200	5	1000	15	5	1000

* Ceramic mount (250 mm² × 0.8 mm)

† T_C = 25 °C

‡ V_{CEO}

§ V_{CE0}

|| V_{DS}

I_G

** P_D

†† V_{GS}

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Note

I_{GSS}

I_{DSS}

|Y_{fs}|

C_{rss}

V_{GS}

V_{DSX}

I_D

Listed by package type and arranged in order of increasing P_C

Switching Transistors

Device	Package type	Applications	Absolute maximum ratings						Electrical characteristics (T _a = 25 °C)						
			V _{CEO} (V)	V _{CE0} (V)	V _{EBO} (V)	I _C (A)	P _C (W)	T _J (°C)	hFE @ V _{CE} · I _C			f _T @ V _{CE} · I _C			t _r max (μs)
									hFE	V _{CE} (V)	I _C (A)	f _T (MHz)	V _{CE} (V)	I _C (A)	
2SK1839	MCP	MOSFET analog switch	30#	±12**	—	0.1††	0.15††	125§§	I _{DSS} max = 1 μA, Y _{fs} = 50 mS, R _{DS(on)} = 15 Ω						
2SK536	CP	MOSFET analog switch	50#	±12**	—	0.1††	0.2††	125§§	I _{DSS} max = 1 μA, Y _{fs} = 40 mS, R _{DS(on)} = 20 Ω						
2SK1840	CP	MOSFET analog switch	30#	±12**	—	0.1††	0.2††	125§§	I _{DSS} max = 1 μA, Y _{fs} = 50 mS, R _{DS(on)} = 15 Ω						
2SK1841	SPA	MOSFET analog switch	30#	±12**	—	0.1††	0.2††	125§§	I _{DSS} max = 1 μA, Y _{fs} = 50 mS, R _{DS(on)} = 15 Ω						
2SK669	SPA	Very high-speed analog switch	50#	±12**	—	0.1††	0.2††	125§§	I _{DSS} max = 1 μA, Y _{fs} = 40 mS, R _{DS(on)} = 20 Ω						
2SK583	NP	Very high-speed analog switch	50#	±12**	—	0.2††	0.6††	125§§	I _{DSS} max = 1 μA, Y _{fs} = 40 mS, R _{DS(on)} = 20 Ω						
2SA1883*	SMCP	High-speed switch	15	15	5	0.2	0.15	150	50 to 140	1	0.01	1000	1	0.01	0.019‡
2SC4987*	SMCP	High-speed switch	40	15	5	0.2	0.15	150	50 to 200	1	0.01	750	10	0.01	0.012‡
2SA1763	MCP	High-speed switch	15	15	5	0.2	0.15	150	50 to 140	1	0.01	1000	10	0.01	0.019‡
2SC4452	MCP	High-speed switch	40	15	5	0.2	0.15	150	50 to 200	1	0.01	750	10	0.01	0.012‡
2SA1764	CP	High-speed switch	15	15	5	0.2	0.20	150	50 to 140	1	0.01	1000	10	0.01	0.019‡
2SC4453	CP	High-speed switch	40	15	5	0.2	0.20	150	50 to 200	1	0.01	750	10	0.01	0.012‡