

Transistors (Selection Guide by Applications and Functions)

■ Silicon Medium Power Transistors (continued)

Application Functions	Package (No.)							V _{CEO} (V)	I _C (A)	V _{CE(sat)}			h _{FE} ● f _T (MHz)	I _C * I _E (A)
	U Type (D41)	TO-126 (D52 ※, D53)	MT2L Type (D44)	MT3 Type (D45)	MT4 Type (D46)	TO-202 (D54)	TO-220(a) (D56)	TO-220F (D59)		typ. (V)	I _C (A)	I _B (mA)		
T V Chroma input						2SA1605			200	0.07	< -1.5	-0.05	-5	●80 * 0.01
		2SC2258							250	0.1	< 1.2	0.05	5	●100 * 0.01
		2SC3063				2SC2923	2SC4714	2SC3942	300	0.1	< 1.5	0.03	3	●140 * 0.02
								2SA1817	300	0.1	< 1.5	0.03	3	●350 0.01
								2SC4717	300	0.1	< 0.45	0.03	3	●350 0.01
								2SC3945	300	0.1	< 1.5	0.05	5	●100 * 0.02
	2SA1375								200	0.07	< 1.5	0.05	5	●80 * 0.01
	2SC2924								300	0.1	< 1.5	0.03	3	●140 * 0.02
		2SC5121							400	0.07	< 1.2	0.05	5	●80 * -0.01
Horizontal drive	2SD1112					2SC2653(H)	2SC1905(H)	2SC3946	300	0.2	< 1.0	0.05	5	●70 * 0.01
High h _{FE}				△ 2SB1630	△ 2SB1631				60	3	< 1.0	2.0	50	350 ~ 625 0.5
	△ 2SD2453				2SD2139			2SD1273	60	3	< 1.0	2.0	50	500 ~ 2500 0.5
	△ 2SD2443								20	0.7	< 0.4	0.5	50	1000 ~ 2500 0.15
								△ 2SD2486	60	4	< 0.5	2.0	50	300 ~ 2000 0.8

△ Preliminary (: Complementary pair

■ Silicon Power Transistors

Application Functions	V _{CEO} (V)	I _C (A)	V _{CE(sat)}			Package (No.)											
			typ. (V)	I _C (A)	I _B (mA)	TO-220(a) (D56)		TO-220F(D59)		TO-220E(D63)		TO220D(D62)		N Type (D47)		I Type (D48)	
						NPN	PNP	NPN	PNP	NPN	PNP	NPN	PNP	NPN	PNP	NPN	
General-use	60/80	1	<1	1	125		2SB954/A								2SB1169/A		
	60/80	2	<2	2	200		2SB1052	2SD1480							2SB1170	2SD1751	
	60/80	4	<1	2	400			2SD1265/A						2SD1251/A			
			<1	2	200			2SD1475									
			<1.5	4	400	2SD1990		2SD2000									
	60/80	3	<1.2	3	375		2SB941/A	2SD1266/A			2SB1548	2SD2374	2SB929/A	2SD1252/A	2SB1172/A	2SD1742/A	
			<1.2	3	375		2SB1393/A	2SD1985/A									
	60/80	4	<1.5	4	400		2SB942/A	2SD1267/A					2SB930/A	2SD1253/A	2SB1173/A	2SD1743/A	
	80	2	<0.5	2	100			2SD1517									
	80	5	<2	3	300	2SD812											
	80	10	<0.5	6	300			2SD2157									
	100	5	<2	3	300		2SB1063	2SD1499									
	150/180	1	<1	0.5	50	2SD1770/A	2SB1192/A	2SD1772/A					2SB1191/A	2SD1771/A	2SB1233/A		
	150/180	2	<1	0.5	50		2SB940/A	2SD1264/A					2SB928/A	2SD1250/A	2SB1171/A	2SD1741/A	
	250/300	0.75	<1	1	200			2SD1263/A						2SD1249/A		2SD2215/A	
Low V _{CE} (sat)	20/40	4	0.25	2	100		2SB1071/A	2SD1539/A	2SB1603	2SD2465			2SB1070/A	2SD1538/A			
	20/40	7	0.32	5	160		2SB953/A	2SD1444/A					2SB952/A		2SB1638		
	20/40	10	0.4	10	330		2SB948/A	2SD1445/A	2SB1604	2SD2466			2SB936/A		2SB1148/A	2SD1752/A	
			0.32	7	230		2SB947/A					2SB935/A					
	80	3	0.3	2	100		2SB943	2SD1268	2SB1605	2SD2467			2SB931	2SD1254	2SB1174	2SD1744	
			0.12	2	100	2SD1528		2SD1530					2SD1529				
	80	4	0.25	3	150		2SB944	2SD1269					2SB932	2SD1255	2SB1175	2SD1745	
	80	5	0.3	1	125		2SB945	2SD1270	2SB1606	2SD2468			2SB933	2SD1256	2SB1176	2SD1746	
	80	15	0.5	7	350			2SD1964									
	80/100	7	0.25	5	250		2SB946	2SD1271/A	2SB1607	2SD2469			2SB934	2SD1257/A	2SB1177	2SD1747/A	

△ Preliminary

(Package Symbol) TO-220(F) = TO-220 Type Full Pack Package