

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} (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
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