Transistors (Selection Guide by Applications and Functions)

■ Silicon Large Power Transistors

Application	V _{CEO} (V)	I _C (A)	V			Package (No.)		
Application Functions			V _{CE(sat)} (V)	I _C (A)	I _B (mA)	TOP-3(a) (D64)	TOP-3F(a) (D67)	
	50	7	< 0.8	7	700	2SA1185		
General-use	100	5	<2	3	300		2SB1054/2SD1485	
	140	7	<2	5	500	TOP-3(a) (D64)		
	80	10	0.2	6	300		2SB1154/2SD1705	
Low V _{CE(sat)}		15	0.2	7	350		2SB1155/2SD1706	
		20	0.25	´ 8	400		2SB1156/2SD1707	
	150	6	<1.5	3	60		2SD1457	
Darlington	200	6	<1.5	3	60		2SD1457A	
	400	20	< 2.0	20	800		2SC4535	
	55	4	<2	0.5	2	2SD1641		
High-h _{FE}	60	10	< 0.5	5	100		2SD1831	
	80/100	3	<1	2	50		2SD1643/A	

■ Silicon Power Transistors for Audio

Single

Application	V _{CEO} (V)	I _C (A)	V _{CE(sat)}			Pc	Package (No.)		
				l _c (A)	I _B (mA)	(W)	TOP-3(a) (D64)	TOP-3F(a) (D67)	TOP-3L (D71)
Audio output	120	6	<2	4	400	70		2SB1371/2SD2064	
	140	7	<2	5	500	80	2SB1421/2SD2140	2SB1372/2SD2065	
	150	9	<2	7	700	100	2SB1362/2SD2053	2SB1361/2SD2052	
	160	12	<1.8	8	120	120			2SB1419
	160	12	<2	8	800	120	2SB1373/2SD2066		2SB1347/2SD2029 2SB1528/2SD2327
	180	15	< 2.5	10	1(A)	150			2SB1317/2SD1975 2SB1529/2SD2328

Darlington

Application	V _{CEO} (V)	I _C (A)	V			Pc	Package (No.)				
			V _{CE(sat)} (V)	I _C (A)	I _B (mA)	(W)	TO-220(F)(a)(D59)	TOP-3(a)(D64)	TOP-3F(a)(D67)	TOP-3L(D71)	
Audio output (incl. driver) Darlington	80	3	<2.5	2	2	35	2SB1250/2SD1890			2SB1500/2SD2273	
	90	4	<3	3	3	40	2SB1251/2SD1891			2SB1501/2SD227	
	100	5	<2.5	4	4	45	2SB1252/2SD1892			2SB1502/2SD227	
	110	6	<2.5	5	5	50			2SB1253/2SD1893	2SB1492/2SD2254	
	130	6	<2.5	5	5	50		2SB1531/2SD2340			
	140 .	7	<2.5	6	6	70		2SB1493/2SD2255	2SB1254/2SD1894	2SB1490/2SD2250	
	140	8	<2.5	7	7	100		2SB1469/2SD2221	2SB1255/2SD1895	2SB1503/2SD2276	
	Equivalent circuit				~		= 100Ω D	erect drive by IC is pos	sible		

Complementary pair marked/between products (Ex. 2SB1054/2SD1485) (Package Symbol) TO-220(F) =TO-220 Type Full Pack Package, TOP-3F =TOP-3 Type Full Pack Package, TOP-3L =TOP-3 Type Large Package