

# Transistors (Selection Guide by Applications and Functions)

## ■ Switching Power Transistors

Application	V <sub>CB0</sub> (V)	V <sub>CE0</sub> (V)	I <sub>C</sub> (A)	V <sub>CE(sat)</sub>			t <sub>r</sub> (μs)	Package (No.)											
				V	I <sub>C</sub> (A)	I <sub>B</sub> (mA)		MT3 (D40)	MT4 (D41)	TO-220(a) (D52)	TO-220F(a) (D55)	N Type (D42)	I Type (D44)	U Type (D36)	TOP-3(a) (D60)	TOP-3F (D63)	TOP-3E (D65)	TOP-3L (D67)	
Switching	150/200 /250	80	5	<1.6	5	1(A)	1					2SD1274/AB							
	330	200	7	<1	5	500	0.75										2SD1680 *		
	450	400	10	<1.2	4	800	1										2SC5278		
	500	400	2	<1	1	200	1	△2SC4986					2SC3403	2SC3825					
	500	400	10	<1	5	1A	1											2SC3210	
	500	400	10	<1	5	1A	1												2SC3171
	500	400	15	<1	7	1.4A	1												2SC3527
	500	400	20	<1	10	2A	1											2SC3850	2SC3528
	800/900	500	1.5	<1	1	200	1						2SC3352/A						
	800/900	500	1.5	<1	1	200	1						2SC3794/A						
	800/900	500	5	<1	3	600	1						2SC3353/A						
	800/900	500	5	<1	3	600	1						2SC3795/A	2SC5145					
	800/900	500	5	<1	3	600	1												2SC3211
	800/900	500	5	<1	3	600	1										2SC3796/A	2SC3798/A	
	800/900	500	7	<1	5	1A	1												2SC3212/A
	800/900	500	7	<1	5	1A	1											2SC3797/A	2SC3799/A
	850	650	5	<1.5	3	600	0.5												2SC3577
	900	500	15	<1	8	1.6A	1												
	900	800	1	<1.5	0.2	40	1						2SC4004						
	900	800/ 900	1	<1.5	0.2	40	1	△2SC4985	2SC4892					2SC3496/A	2SC3824/A				2SC4960
1000	800	3	<0.6	0.8	160	1						2SC3743						2SC4359	
1000	800	3	<1.5	2	400	0.5												2SC3506	
1000	800	5	<1.5	3	600	0.5												2SC5156	
																		2SC3507	
																		2SC5157	
																		2SC5283	
	-400	-400	0.5	<-1.5	-0.2	-40	1					2SA1614		2SA1550	2SB1632				
	-400	-400	0.6	<-1	-0.3	-60	1					2SA1499	2SA1498	2SA1495	△2SA1868				
	-400	-400	5	<-1	-2	-400	1					2SA1500	2SA1501						
	-600	-600	-0.3	<-1	-0.15	-30	0.5							2SB1498					

△ Tentative