Transistors (Selection Guide by Applications and Functions)

■ Switching Power Transistors

Application	V_{CBO} (V)	V_{CEO} (V)	I_C (A)	$V_{CE(sat)}$ (V)	I_C (A)	I_B (mA)	t_f (μs)	Package (No.) MT3 (D43)	MT4 (D46)	TO-220(a) (D56)	TO-220F(a) (D59)	TO-220E (D63)	TO-220D (D62)	N Type (D47)	I Type (D48)	U Type (D41)	TOP-3(a) (D64)	TOP-3F (D67)	TOP-3E (D69)	TOP-3L (D71)
Switching	150/200/250	80	5	<1.6	5	1(A)	1				2SD1274/A/B									
	330	200	7	<1	5	500	0.75										2SD1680※			
	500	400	2	<1	1	200	1	△2SC4986						2SC3403	2SC3825					
	500	400	7	<1	3	600	1										2SC2841			
	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													2SC3910
	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										2SC3285	2SC3506	2SC5156	
	1000	800	5	<1.5	3	600	0.5											2SC3507	2SC5157	
	−400	−400	0.5	<−15	−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					

△ Preliminary

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