

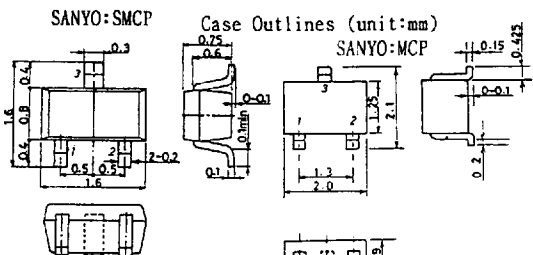
HIGH-SPEED SWITCHING APPLICATIONS (Small Signal Transistors)

Features

- *High switching speed
- *High breakdown voltage
- *Low collector saturation voltage
- *Very small-sized package permitting a set to be made smaller

*: Mounted on ceramic board (250mm²X0.8mm).
for PNP, (-) sign is omitted.

☆: Tc=25°C.



Type No. (): Marking.	Package	Absolute Maximum Ratings/Ta=25°C				Electrical Characteristics/Ta=25°C									
		V _{CBO} (V)	V _{CEO} (V)	I _C (A)	P _C (W)	V _{CE} (V)	I _C (mA)	h _{FE}	I _C (mA)	I _B (mA)	V _{CE(sat)} (V)	t _{on}	t _{stg} typ (ns)	t _{off} * toff	
2SA1883(HA) 2SC4987(B4-6)	SMCP	15 40	15 15	0.2 0.2	0.15 0.15	1 1	10 10	50 ~ 140 50 ~ 200	10 10	1 1	0.07 0.13	11 8	21 6	*19 *12	
2SA1763(FS) 2SC4452(ST)	M C P	15 40	15 15	0.2 0.2	0.15 0.15	1 1	10 10	50 ~ 140 50 ~ 200	10 10	1 1	0.07 0.13	11 8	21 6	*19 *12	
2SA1685(YL) 2SC4443(GT)		40 20	20 0.15	0.15 0.15	1 1	10 10	60 ~ 180 60 ~ 270	10 10	1 1	0.07 0.08	tr11 10	80 70	16 15		
2SA1764(FS) 2SC4453(ST)	C P	15 40	15 15	0.2 0.2	0.2 0.2	1 1	10 10	50 ~ 140 50 ~ 200	10 10	1 1	0.07 0.13	11 8	21 6	*19 *12	
2SA1607(YL) 2SC4168(GT)		40 20	20 0.15	0.15 0.2	1 1	10 10	60 ~ 180 60 ~ 270	10 10	1 1	0.07 0.08	tr11 10	80 70	16 15		
2SA1728(DS) 2SC4519(TT)		50 60	40 45	0.5 0.2	0.2 0.2	2 2	50 50	70 ~ 280 100 ~ 400	200 200	10 10	0.2 0.15	60 120	120 150	*170 *200	
2SA1331(O-) 2SC3361(S-)		60 50	50 0.15	0.15 0.15	6 6	1 1	90 ~ 400	10 10	1 1	0.1 tr120	80 190	230 200	160 160		
2SA1338(AL) 2SC3392(AY)	P C P	60 50	50 0.5	0.2 0.2	5 5	10 10	100 ~ 560	100 100	10 10	0.15 0.1	70 400	50 70	50 70		
2SA1898(AN) 2SC5188(CX)		15 25	15 20	3 *1.3	*1.3 2	2 2	500 500	100 ~ 280 100 ~ 400	1500 800	75 40	0.25 0.22	30 50	100 150	*120 *180	
2SA1935(AO) 2SC5187(CV)		15 25	15 20	1.5 *1.3	*1.3 2	2 2	100 100	100 ~ 280 100 ~ 400	800 2500	40 125	0.22 0.2	30 50	100 150	*120 *180	
2SA1936(AP) 2SC5189(CW)		15 25	15 20	5 *1.3	*1.3 2	2 2	500 500	100 ~ 280 100 ~ 400	2500 800	125 40	0.2 0.3	30 50	100 150	*120 *180	
2SA1729(AG) 2SC4520(CK)	SPA	50 60	40 45	1.5 *1.3	*1.3 2	100 100	70 ~ 280 100 ~ 400	800 800	40 40	0.3 0.25	50 150	120 150	*150 *180		
2SA1730(AH) 2SC4521(CL)		50 60	40 45	3 *1.5	*1.5 2	2 2	500 500	70 ~ 280 100 ~ 400	1500 1500	75 75	0.3 0.25	50 150	120 150	*150 *180	
2SA1765 2SC4454		15 40	15 15	0.2 0.3	0.3 1	1 1	10 10	50 ~ 140 50 ~ 200	10 10	1 1	0.07 0.13	11 8	21 6	*19 *12	
2SA1339 2SC3393		60 50	50 0.5	0.3 0.3	5 5	10 10	100 ~ 560	100 100	10 10	0.15 0.1	70 400	400 70	50 70		
2SA1481 2SC2960	NP(B.C)	60 50	50 0.15	0.25 0.6	6 6	1 1	100 ~ 560	10 10	1 1	0.1 tr120	190 80	240 160			
2SC4455		40 15	15 0.2	0.6 0.6	1 1	10 10	50 ~ 200	10 10	1 1	0.13 0.13	8 8	6 6	*12		
2SA1731 2SC4522	T P	50 60	40 45	5 *15	*15 2	500 500	70 ~ 280 100 ~ 400	2500 2500	125 125	0.3 0.25	50 150	120 150	*150 *180		
2SA1732 2SC4523		50 60	40 45	8 *15	*15 2	500 500	70 ~ 280 100 ~ 400	4000 4000	200 200	0.3 0.25	50 150	120 150	*150 *180		

1: Base, 2: Emitter, 3: Collector

SANYO:CP
1: B, 2: E, 3: C

SANYO:PCP
1: B, 2: C, 3: E

SANYO:SPA
1: E, 2: C, 3: B

SANYO:NP
1: E, 2: B, 3: C

SANYO:TP
1: B, 2: C, 3: E, 4: C

JEDEC : TO-92
EIAJ : SC-43

These specifications are subject to change without notice.