

NEW PRODUCT VERY HIGH-FREQUENCY TRANSISTOR SERIES (No.2)

Newly developed SANYO very high-frequency transistors can be used for various applications such as for communication equipment and measuring equipment. They are superior when used with low voltage drive.
 Their packages are so small that you can make the mounting area of a board more compact. Though they are very small they maintain high reliability.

Use *Communication equipment of VHF/UHF *TV Tuners *CATV converters *RF modulators *BS tuners

Features *Achieved high gain and low noise by adopting the low-noise GIII-NRP(Giga III-Noise Reduction Process) technology.
 *High performance of low power-consumption in low-current area.
 *High reliability. (Adoption of Au electrodes)

*Wide variety of package line (For surface mounting : SSFP, SMCP, MCP, MCP4/6, CPH6, CP3/4, PCP) Case Outlines (unit:mm)
 *New complex type products(FS type :development type No.) SANYO:SSFP
 1:Base, 2:Emitter, 3:Collector

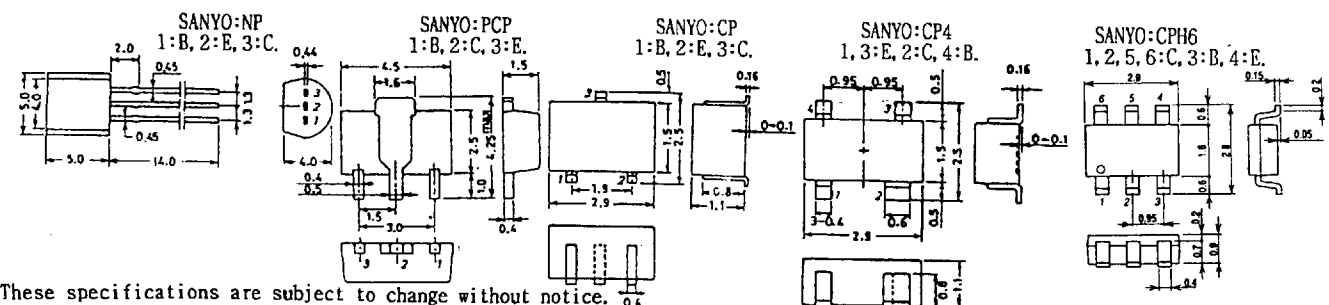
|S21e|², NF: f = 1GHz, ♦: 1.5GHz, ★: 2GHz, ○: 150MHz.
 PC ★: When mounted on ceramic board (250mm²X0.8mm)

Type No. ():Marking	Pac- kage	Absolute Maximum Ratings/Ta=25°C				Electrical Characteristics /Ta=25°C										
		V _{CBO} (V)	V _{CEO} (V)	I _C (mA)	P _C (mW)	V _{CE} (V)	I _C (mA)	f _T typ (GHz)	V _{CB} (V)	C _{ob} typ (PF)	V _{CE} (V)	I _C (mA)	NF typ (dB)	V _{CE} (V)	I _C (mA)	S21e ² typ (dB)
2SC5488(LN)	SSFP	20	10	70	100	5	20	7	10	0.7	5	7	1	5	20	12
2SC5489(GN)		16	8	50	100	5	15	9	10	0.6	5	5	1.2	5	15	13
2SC5490(MN)		20	10	30	100	5	10	11	10	1.1	3	3	1.4	5	10	10
2SC5536(MA)		20	12	50	100	2	3	1.7	10	1.1	2	2	1.8	2	3	10
2SC5537(CN)		12	6	15	80	1	1	5	1	0.6	1	1	2.6	1	1	7
2SC5538(NA)		20	10	100	100	3	7	5.2	3	1	3	7	1.4	3	7	10.5
2SC5539(ND)		20	12	100	100	5	30	7.5	10	0.9	5	7	1.1	5	30	12
2SC5540(HN)	16	8	20	100	5	4	10	10	0.4	5	4	1.3	5	7	13	
2SC5541(RY)	9	6	30	100	5	10	13	-	-	5	5	1.2	5	10	10	
2SC4931(B1-3)	SMCP	16	8	50	100	5	15	9	10	0.55	5	5	1.2	5	15	13
2SC5231(C7-9)		20	10	70	100	5	20	7	10	0.7	5	7	1	5	20	12
2SC5277(D1-3)		20	10	30	100	5	10	11	10	0.45	5	5	1.4	5	10	10
2SC5374(NA)		20	10	100	100	3	7	5.2	3	1	3	7	1.4	3	7	10.5
2SC4853(CN)	MCP	12	6	15	80	1	1	5	1	0.6	1	1	2.6	1	1	7
2SC4867(GN)		16	8	50	150	5	15	9	10	0.6	5	5	1.2	5	15	13
2SC5226(LN)		20	10	70	150	5	20	7	10	0.75	5	7	1	5	20	12
2SC5245(MN)		20	10	30	150	5	10	11	10	0.45	5	5	1.4	5	10	10
2SC5373(RY)		9	5	50	150	2	10	13	-	-	2	5	1.2	2	10	10
2SC5375(NA)		20	10	100	150	3	7	5.2	3	1	3	7	1.4	3	7	10
2SC5501(LN)	MCP4	20	10	70	500	5	20	7	10	0.75	5	7	1	5	20	13
2SC5502(TY)		20	12	100	500	5	30	8	-	-	5	7	1.1	5	30	12
2SC5503(GN)		16	8	50	400	5	15	9	10	0.6	5	5	1.2	2	15	15
2SC5504(MN)		20	10	30	300	5	10	11	10	0.45	5	5	1.4	5	10	11
2SC5534(RY)		9	6	30	150	5	10	13	-	-	5	5	1.2	5	10	10
2SA1963(MS)	CP	12	8	50	200	5	10	5	10	0.8	5	5	1.5	5	10	9
2SC4854(CN)		12	6	15	80	1	1	5	1	0.6	1	1	2.6	1	1	7
2SC4868(GN)		16	8	50	200	5	15	9	10	0.6	5	5	1.2	5	15	13
2SC5227(LN)		20	10	70	200	5	20	7	10	0.75	5	7	1	5	20	12
2SC5275(MN)		20	10	30	200	5	10	11	10	0.45	5	5	1.4	5	10	10
2SC4855(CN)	CP4	12	6	15	80	1	1	5	1	0.6	1	1	2.6	1	1	7.5
2SC4869(GN)		16	8	50	200	5	15	9	10	0.6	5	5	1.2	5	15	15
2SC5228(LN)		20	10	70	200	5	20	7	10	0.75	5	7	1	5	20	13.5
2SC5276(MN)		20	10	30	200	5	10	11	10	0.45	5	5	1.4	5	10	11
CPH6001(GA)	CPH6	20	12	100	800	5	30	6.7	5	9.5	5	7	1.1	5	30	9
CPH6002(GB)		40	30	300	800	5	50	4	5	2.3	-	-	-	-	-	9
2SA1969(AQ)	PCP	10	10	400	1300	5	100	1.7	10	4.7	-	-	-	-	-	-
2SC5229(CY)		20	10	70	700	5	20	6.5	10	0.85	5	7	1	5	20	11
2SC5415(EA)		20	12	100	800	5	30	6.7	5	1.2	5	7	1.1	5	30	9
2SC5230	*NP	20	10	70	400	5	20	6.5	10	0.85	5	7	1	5	20	10.5
2SC5414		20	12	100	400	5	30	6.7	5	1	5	7	1.1	5	30	9.5

*sign NP package : Emitter center

New complex type product (New package : MCP6)

Type No. ():Marking	Related type No. (Chips used)	Absolute Maximum Ratings/Ta=25°C				Electrical Characteristics /Ta=25°C										
		V _{CBO} (V)	V _{CEO} (V)	I _C (mA)	P _C (mW)	V _{CE} (V)	I _C (mA)	f _T typ (GHz)	V _{CB} (V)	C _{ob} typ (PF)	V _{CE} (V)	I _C (mA)	NF typ (dB)	V _{CE} (V)	I _C (mA)	S21e ² typ (dB)
FH102(102)	2SC5226X2	20	10	70	300	5	20	7	10	0.75	5	7	1	5	20	12
FH103(103)	C4867X2	16	8	50	300	5	15	9	10	0.6	5	5	1.2	5	15	13
FH104(104)	C4853X2	12	6	15	80	1	1	5	1	0.6	1	1	2.6	1	1	7
FH105(105)	C5245X2	20	10	30	150	5	10	11	10	0.45	5	5	1.4	5	10	10
FH201(201)	C4871/C4867	16	8	20/50	150	5	4/15	10/9	10	0.4/0.6	5	4/5	1.3/1.2	5	7/15	10
FH202(202)	TS4162/C5226	20	12/10	50/70	150	2/5	3/20	1.7/7	10	1.1/0.75	2/5	3/7	0.1.8/1	2/5	3/20	13
FH203(203)	C5245/C5414	20	10	30/100	150	5	10/30	11/7.5	10	0.45/0.9	5	5/7	1.4/1.1	5	10/30	10/12



These specifications are subject to change without notice.