

5/6-Pin CPs (FC Series)

The Sanyo 5/6-pin chip packs are small-sized packages that facilitate higher-density mounting. We have various packings that meet automatic mounting requirements.

Transistors for HF, LF Amp General-purpose Amp, Differential Amp Applications

Features

- * Composite version with two transistors contained in the CP heretofore in use, facilitating higher-density mounting
- * Ideally suited for differential amp applications because of excellent thermal equilibrium and complementary PNP and NPN Types available

Marking: Numeral for Type No. For PNP, (-) sign is omitted.

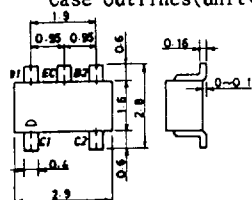
Type No ():Main use *(LF general purpose Amp)	Pack- age	Absolute Maximum Ratings/Ta=25°C				Electrical Characteristics/Ta=25°C								Chips Used PNP / NPN			
		V CBO (V)	V CEO (V)	I C (mA)	P C unit (mW)	V / I CE C (V) (mA)		h FE	I / I C B (mA)		V CE(sat) typ (V)	max	V / I CE C (V/mA)		f T typ (MHz)		
*FC103(PNP)/FC104(NPN) *FC153(PNPxNPN)	CP5	55 55	50 50	150 150	200 200	6/1 6/1	160~600 160~600		50/5 50/5	(0.11) (0.11)	0.08 0.08	0.4 0.4		6/10 6/10	(180) (180)	200 200	A1622/C4211X2 A1622xC4211X1
():PNP																	
*FC101(PNP)/FC102(NPN)	CP6	55	50	150	200	6/1	160~600		50/5	(0.11)	0.08	0.4		6/10	(180)	200	A1622/C4211X2
FC117(PNP)(High curre-		20	15	500		2/10	160~560		5/0.5	15m	35m		2/50	400	A1745X2		
FC118(NPN) nt SW)		20	15	500		2/10	160~560		5/0.5	15m	30m		2/50	300	C4555X2		
FC119(NPN)(HF general)		30	20	30		6/1	80~200		-				6/1	320	C2814X2		
FC120(NPN) amp)		25	20	30		6/1	80~200		-				6/4	750	C3142X2		
*FC122(PNP/NPN)		55	50	150		6/1	160~600		50/5	(0.11)	0.08	0.4		6/10	(180)	200	A1781/C4639X1
FC139(NPN)(High hFE)		60	50	100		5/10	800~3200		50/1	0.1	0.5		10/10	200	C3689X2		
FC140(NPN)(High speed SW)		40	15	200		1/10	90~240		10/1	0.13	0.25		10/10	750	C4452X2		
*FC141(NPN)		55	50	150		6/1	160~600		50/5	0.08	0.4		6/10	200	C4639X2		
FC149(NPN)(High hFE)		30	25	150		5/1	500~1500		50/1	0.15	0.3		10/10	210	A1813X2		
FC150(PNP)(High hFE)		30	25	150		5/10	500~1200		50/1	(0.15)	(0.3)		10/10	210	A1813X1		
(NPN)		60	50	100			800~3200			0.1	0.3			200	C4413X1		
FC151(PNP)(HF general)		20	15	50		10/5	20~100			-			10/5	3G	A1669X2		
FC152(NPN)(HF general)	25	15	50	10/5	60~200			-			10/10	3G	C4270X2				

dc Transistors with Resistance

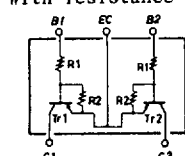
Marking: Numeral for Type No. For PNP, (-) sign is omitted.

Type No PNP / NPN	Pac- package	Absolute Maximum Ratings/Ta=25°C			Electrical Characteristics/Ta=25°C						Resist- ance (KΩ)	Chip Used PNP / NPN
		VCEO VCBO (V)	I C (mA)	P C lunit (mW)	V CE (V)	I C (mA)	h FE min	V CE(sat) typ (V)				
								I C (mA)	I B (mA)			
FC105 / FC106 FC109 / FC110 FC113 / FC114 FC123 / FC124 FC127 / FC128 FC131 / FC132 FC135 / FC136 FC147 / FC148	CP6	50	100	200	5	5	50	5	0.25	0.1 0.3	47 / 47 22 / 22 10 / 10 47 / - 10 / - 10 / 47 4.7 / - - / 22	A1341 / C3395X2 A1342 / C3396X2 A1344 / C3398X2 A1508 / C3898X2 A1496 / C3859X2 A1563 / C4047X2 A1510 / C3900X2 A1573 / C4069X2
FC107 / FC108 FC111 / FC112 FC115 / FC116 FC125 / FC126 FC129 / FC130 FC133 / FC134 FC137 / FC138 FC121 / FC144 FC142 / FC143 FC145 / FC146	CP5					5	50	5	0.25		47 / 47 22 / 22 10 / 10 47 / - 10 / - 10 / 47 4.7 / - 2.2 / 10 4.7 / 10 4.7 / 47	A1341 / C3395X2 A1342 / C3396X2 A1344 / C3398X2 A1508 / C3898X2 A1496 / C3859X2 A1563 / C4047X2 A1510 / C3900X2 A1502 / C3863X2 A1653 / C4360X2 A1597 / C4146X2

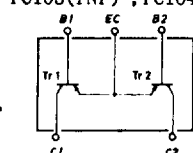
Case Outlines(unit:mm) SANYO:CP5



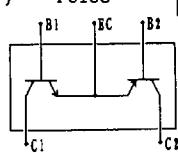
With resistance



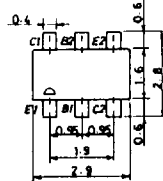
FC103(PNP) . FC104(NPN)



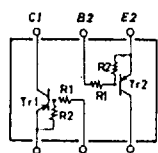
FC153



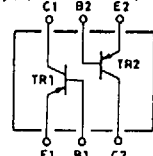
SANYO:CP6



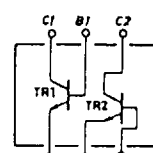
With resistance



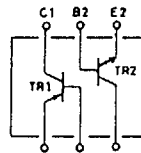
FC101/FC102, FC117, FC118, FC139, FC149.



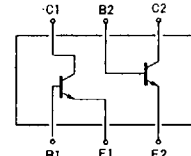
FC119, FC120, FC141.



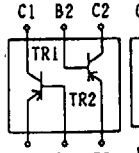
FC122, FC150



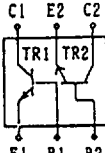
FC140.



FC151.



FC152.



These specifications are subject to change without notice.

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