

# 5/6-Pin CPs FC Series (1)



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

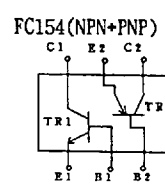
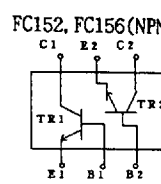
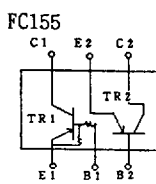
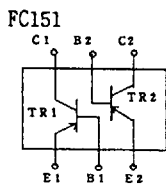
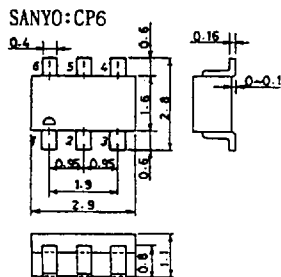
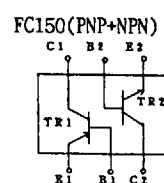
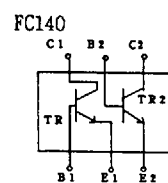
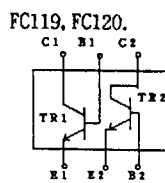
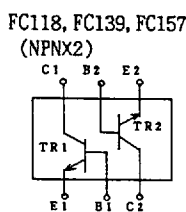
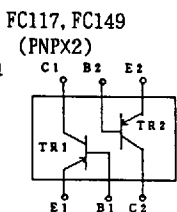
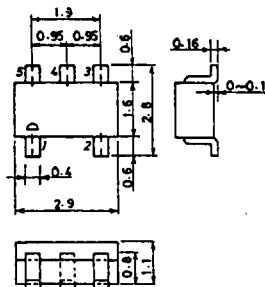
Marking: Numeral for Type No. For PNP, (-) sign is omitted.

Type No ( ):Main use	Package	Absolute Maximum Ratings/Ta=25°C				Electrical Characteristics/Ta=25°C							Chips Used PNP / NPN	
		V <sub>CBO</sub> (V)	V <sub>CEO</sub> (V)	I <sub>C</sub> (mA)	P <sub>C</sub> I <sub>un</sub> It (mW)	V <sub>CE</sub> /I <sub>C</sub> (V) (mA)	h <sub>FE</sub>	I <sub>C</sub> /I <sub>B</sub> (mA)	V <sub>CE(sat)</sub> typ (V)	V <sub>CE</sub> /I <sub>C</sub> max (V/mA)	f <sub>T</sub> typ (MHz)			
FC117(PNP)	CP6	200	20	15	500	2/10	160-560	5/0.5	15m	35m	2/50	400	A1745X2	
FC118(NPN)			20	15	500	2/10	160-560	5/0.5	15m	30m	2/50	300	C4555X2	
FC119(NPN)			30	20	30	6/1	80-200	-	-	6/1	320	C2814X2		
FC120(NPN)			25	20	30	6/1	80-200	-	-	6/4	750	C3142X2		
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
FC149(PNP)			High hFE	30	25	150	5/1	500-1500	50/1	0.15	0.3	10/10	210	A1813X2
FC150(PNP) (NPN)				30 60	25 50	150 100	5/1 5/10	500-1200 800-3200	50/1 50/1	0.15 0.1	0.3	10/10 10/10	210 200	A1813X1 C4413X1
FC151(PNP)			HF general	20	15	50	10/5	20-100	-	-	10/5	3G	A1669X2	
FC152(NPN)				25	15	50	10/5	60-200	-	-	10/10	3G	C4270X2	
FC154(NPN) (PNP)			High speed SW	25	15	50	10/5	60-200 20-100	- -	-	10/10 10/5	3G 3G	C4270X1 A1669X1	
FC155(PNP) (PNP)			Low current circuit R1, 2:4.7, 10KΩ	20	15	500	2/100	100 min	100/5	0.1	0.25	2/50	150	TR with built-in resistances + low saturation voltage TR.
				2/10	160-560	200/10	0.2	0.36	2/50	400				
FC156(NPN)			HF general low noise	20	10	70	5/20	90-200	NF:5V/7mA, 1GHz1.8dB max	-	5/20	7G	C5226X2	
FC157(NPN)	amp	20	10	30	5/10	90-200	NF:5V/5mA, 1.5GHz3dB max	-	5/10	11G	C5245X2			

Case Outlines(unit:mm),

SANYO:CP5 B:Base, E:Emitter, C:Collector

Electrical Connection (Top View) E:Emitter, B:Base, C:Collector



These specifications are subject to change without notice.

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