

查询FC144供应商

FC144

-55 to +150

°C

NPN Epitaxial Planar Silicon Composite Transistor **Switching Applications** (with Bias Resistance)

Package Dimensions

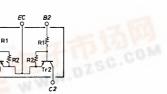
Applications

· Switching circuits, inverter circuits, interface circuits, driver circuits.

Features

- · On-chip bias resistances ($R_1=2.2k\Omega$, $R_2=10k\Omega$).
- · Composite type with 2 transistors contained in the CP package currently in use, improving the mounting efficiency greatly.
- The FC144 is formed with two chips, being equivalent to the 2SC3863, placed in one package.
- · Excellent in thermal equilibrium and pair capability.

Electrical Connection



Tstg

Specifi

Storage Temperature

Abs

specifications						Unit						
Absolute Maximum Ratings at Ta = 25°C												
Parameter	Symbol		Conditions	Ratings	1	Unit						
Collector-to-Base Voltage	V _{CBO}				50	V						
Collector-to-Emitter Voltage	VCEO			L. W. BLY	50	V						
Emitter-to-Base Voltage	V _{EBO}			WWW.	6	V						
Collector Current	IC		180 1 4 5 4 1		100	mA						
Peak Collector Current	ICP		We see a		200	mA						
Collector Dissipation	PC	1 unit			200	mW						
Total Dissipation	PT	COM			300	mW						
Junction Temperature	Ti				150	°C						

Electrical Characteristics at Ta = 25°C

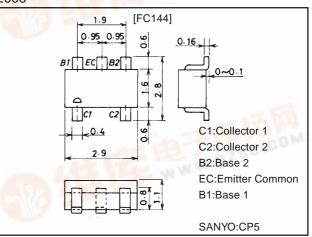
Parameter	Symbol	Conditons		Ratings		
Falameter		Conditions	min	typ	max	Unit
Collector Cutoff Current	ICBO	V _{CB} =40V, I _E =0	- 122	1.01	0.1	μA
Collector Cutoff Current	ICEO	V _{CE} =40V, I _E =0	W to the	1.00	0.5	μA
Emitter Cutoff Current	IEBO	V _{EB} =5V, I _C =0	315	410	590	μA
DC Current Gain	hFE	V _{CE} =5V, I _C =10mA	50			
Gain-Bandwidth Product	fT	V _{CE} =10V, I _C =5mA		250		MHz
Output Capacitance	Cob	V _{CB} =10V, f=1MHz		3.3		pF
C-E Saturation Voltage	VCE(sat)	I _C =10mA, I _B =0.5mA		0.1	0.3	V
C-B Breakdown Voltage	V(BR)CBO	I _C =10µA, I _E =0	50			V
C-E Breakdown Voltage	V(BR)CEO	I _C =100µA, R _{BE} =∞	50			V
Input OFF-State Voltage	V _{I(off)}	V _{CE} =5V, I _C =100µA	0.5	0.7	0.9	V
Input ON-State Voltage	V _{I(on)}	V _{CE} =0.2V, I _C =10mA	0.7	1.0	1.8	V
Input Resistance	R1		1.2	2.2	2.9	kΩ
Resistance Ratio	R1/R2		0.198	0.22	0.242	

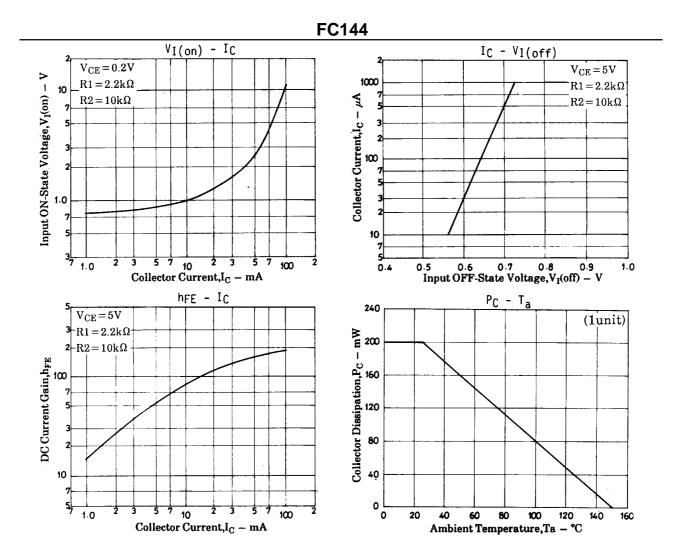
Note: The specifications shown above are for each individual transistor.

Marking:144

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unit:mm 2066





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