

FP216

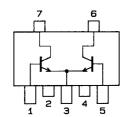
NPN Epitaxial Planar Silicon Transistor

LCD Backlight Drive Applications

Features

- · Composite type with 2 transistors contained in the PCP5 package currently in use, improving the mounting efficiency greatly.
- The FP216 is composed of two chips, each being equivalent to the 2SC3646, placed in one package.

Electrical Connection



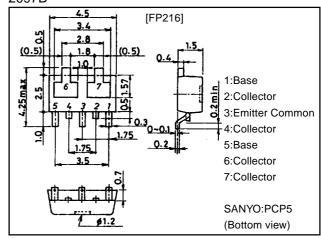
- 1:Base
- 2:Collector
- 3:Emitter Common
- 4:Collector
- 5:Base
- 6:Collector
- 7:Collector

(Top view)

Package Dimensions

unit:mm

2097B



Specifications

Absolute Maximum Ratings at Ta = 25°C

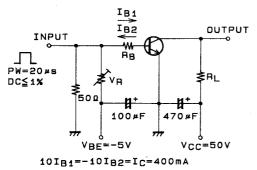
Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V _{CBO}		120	V
Collector-to-Emitter Voltage	VCEO		100	V
Emitter-to-Base Voltage	V _{EBO}		6	V
Collector Current	lc		1	Α
Collector Current (Pulse)	lCP		2	Α
Base Current	Ι _Β		200	mA
Collector Dissipation	PC	Mounted on ceramic board (250mm²×0.8mm) 1 unit	0.8	W
Total Dissipation	PT	Mounted on ceramic board (250mm²×0.8mm)	1.1	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

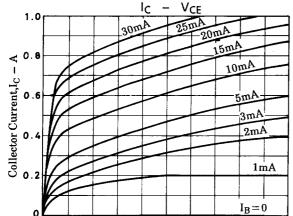
Electrical Characteristics at Ta=25°C

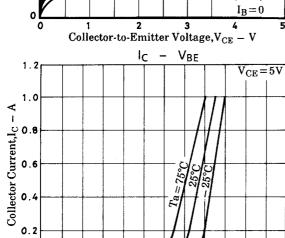
Parameter	Symbol	Conditons	Ratings			Lloit
			min	typ	max	Unit
Collector Cutoff Current	I _{CBO}	V _{CB} =100V, I _E =0			100	nA
Emitter Cutoff Current	I _{EBO}	V _{EB} =4V, I _C =0			100	nA
DC Current Gain	hFE	V _{CE} =5V, I _C =100mA	140		400	
Gain-Bandwidth Product	f _T	V _{CE} =10V, I _C =100mA		120		MHz
Output Capacitance	Cob	V _{CB} =10V, f=1MHz		8.5		pF
C-E Saturation Voltage	V _{CE(sat)}	I _C =400mA, I _B =40mA		100	400	mV
B-E Saturation Voltage	V _{BE(sat)}	I _C =400mA, I _B =40mA		0.85	1.2	V
C-B Breakdown Voltage	V(BR)CBO	I _C =10μA, I _E =0	120			V
C-E Breakdown Voltage	V _(BR) CEO	I _C =1mA, R _{BE} =∞	100			V
E-B Breakdown Voltage	V _{(BR)EBO}	I _E =10μA, I _C =0	6			V
Turn-ON Time	t _{on}	See specified Test Circuit		80		ns
Storage Time	tstg	See specified Test Circuit		850		ns
Fall Time	t _f	See specified Test Circuit		50		ns

Marking:216

Switching Time Test Circuit

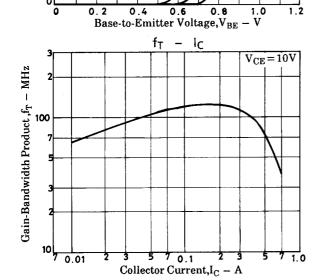


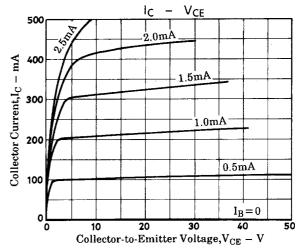


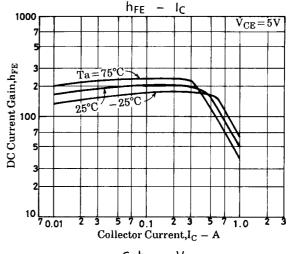


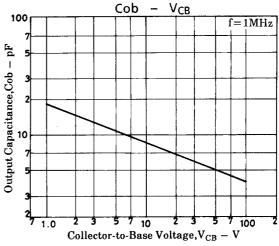
oL 0

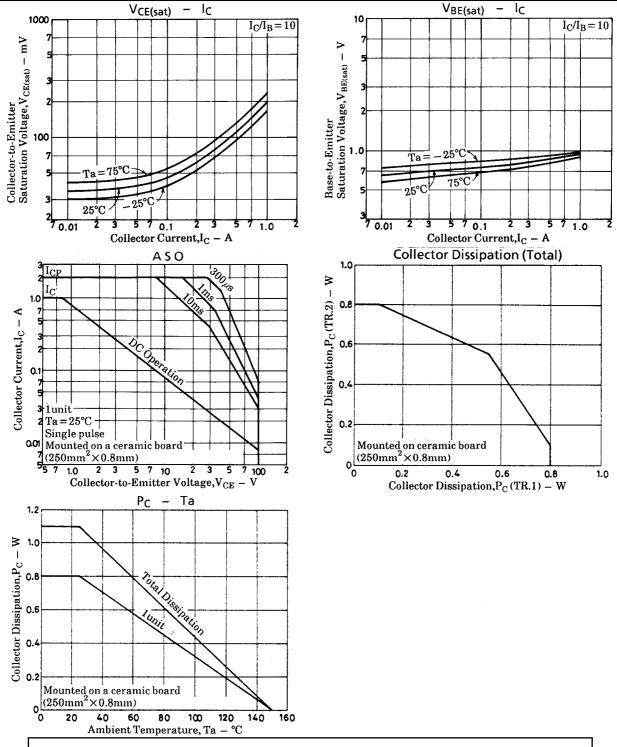
0.2











- No products described or contained herein are intended for use in surgical implants, life-support systems, aerospace equipment, nuclear power control systems, vehicles, disaster/crime-prevention equipment and the like, the failure of which may directly or indirectly cause injury, death or property loss.
- Anyone purchasing any products described or contained herein for an above-mentioned use shall:
 - ① Accept full responsibility and indemnify and defend SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors and all their officers and employees, jointly and severally, against any and all claims and litigation and all damages, cost and expenses associated with such use:
 - ② Not impose any responsibilty for any fault or negligence which may be cited in any such claim or litigation on SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors or any of their officers and employees jointly or severally.
- Information (including circuit diagrams and circuit parameters) herein is for example only; it is not guaranteed for volume production. SANYO believes information herein is accurate and reliable, but no guarantees are made or implied regarding its use or any infringements of intellectual property rights or other rights of third parties.

This catalog provides information as of May, 1998. Specifications and information herein are subject to change without notice.