

PCP4/5 series :FP series(2)

High performance composite type devices suitable for surface mounting which make the sets smaller and lighter.

note:Marking is the figures of Type No.

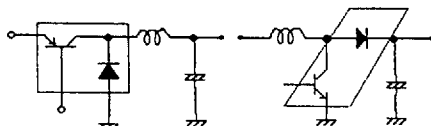
※:When mounted on ceramic board(25.0mm×0.8mm)(1 unit)

dc DC-DC converters (TR+SBD)

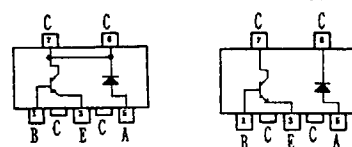
For PNP, (-) sign is omitted.

Type No.	Pack- age	Absolute Maximum Ratings					Electrical Characteristics/Ta=25℃												Related Type No. (Chips used)
		(Transistor)			(Diode)		(Transistor)						(Diode)						
		V _{CEO} (V)	I _C (A)	P _C (W) * I _{uni}	V _{RRM} (V)	I _O (A)	V _{CE} /I _C (V/mA)	h _{FE}	I _C /I _B (A/mA)	V _{CE(sat)} typ/max (V)	I _F (A)	V _F max (V)	V _R (V)	I _R max (μA)	I _F (A)	t _{rr} max (nS)			
FP101	PCP4	25	2	1.3	50	0.5	2/100	140-560	1.5/75	0.35/0.6	0.5	0.55	25	50	0.1	10	B1121+SB05-05CP		
FP102		11	3		30	0.7	2/500	140-560	1.5/30	0.22/0.4	0.7	0.55	15	80		10	B1396+SB07-03C		
FP103		25	2		30	0.7	2/100	140-560	1.5/75	0.35/0.6	0.7	0.55	15	80		10	B1121+SB07-03C		
FP104		40	1.5		50	0.5	2/100	100-280	0.8/40	0.3/0.8	0.5	0.55	25	50		10	A1729+SB05-05CP		
FP105		50	2		50	0.5	2/100	140-560	1/50	0.3/0.7	0.5	0.55	25	50		10	B1123+SB05-05CP		
FP106		15	3		15	1	2/500	100-280	1.5/75	0.25/0.5	1.0	0.55	7.5	50		10	A1898+SB10-015C		
FP107		11	3		11	0.5	2/500	140-560	1.5/30	0.22/0.4	0.5	0.45	6	200		typ50	B1396+SB0501C		
FP108		25	2		15	1	2/100	140-400	1.5/75	0.35/0.6	1.0	0.55	7.5	50		10	B1121+SB10-015CP		
FP301	PCP5	25	2	0.8	30	0.7	2/100	140-560	1.5/75	0.18/0.4	0.7		15	80	0.1	10	D1621+SB07-03C		
FP302		45	1.5		50	0.5	2/100	100-400	0.8/40	0.25/0.7	0.5	0.55	25	50		10	C4520+SB05-05CP		
FP303		50	2		50	0.5	2/100	140-560	1/50	0.15/0.4	0.5		25	50		10	D1623+SB05-05CP		
FP304		10	3		30	0.7	2/500	160-560	3/60	0.3/0.4	0.7		15	80		10	D1620+SB07-03C		

Application circuits(DC-DC converter)
FP101-FP108(1 pack) FP301-FP304



Electrical connection(top view)
FP101-FP108 FP301-FP304



dc High-speed switching application

For PNP, (-) sign is omitted.

Type No.	Pack- age	Absolute Maximum Ratings /Ta=25°C					Electrical Characteristics/Ta=25°C												Related Type No. (Chips used)
		MOSFET			SBD		MOSFET						SBD						
		V _{DSS} (V)	I _D (A)	P _D Tc=25°C (W)	V _{RRM} (V)	I _O (A)	V _{DS} /I _D (V/mA)	V _{GS(off)}	R _{DS(on)} (mΩ) VGS=4.5V typ/max	VGS=10V typ/max	I _F (A)	V _F max (V)	V _R (V)	I _R max (μA)	I _F (A)	t _{rr} max (nS)			
FP501	PCP4	30	0.5	3.5	30	0.5	10/1	1~2.5	800/1500	400/550	0.5	0.55	15	30	0.1	10	NchMOSFET+SB05-03		
FP502	PCP4	11	2	3.5	11	0.5	10/1	1~4	200/320	140/200	0.5	0.45	15	80	0.1	30	NchMOSFET+SB05-01		
FP601	PCP5	20	1	2.0	30	0.7	10/1	0.8~2	550/750	350/480	0.7	0.55	15	80	0.1	10	K2151+SB07-03C		

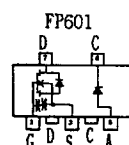
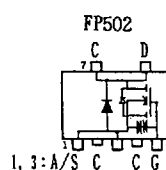
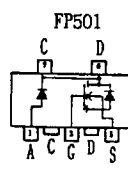
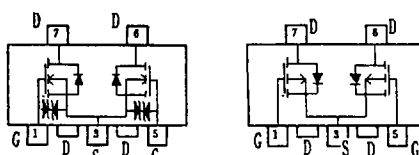
dc Low On-resistance Power MOSFETs

Complex type

For PNP, (-) sign is omitted.

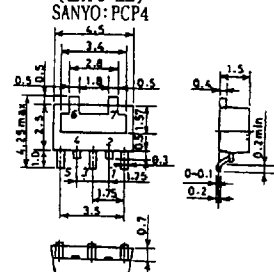
Type No.	Pack- age	AbsoluteMaximum Ratings/Ta=25°C				Electrical Characteristics/Ta=25°C							Related type No. Chips used
		V _{DSS} (V)	V _{GSS} (V)	I _D T _c =25°C (A)	P _D (W)	V _{DS} (V)	I _D (A)	y _{fs} typ (mS)	R _{DS(on)} (Ω)		ciss typ (pF)	crss typ (pF)	
									VGS=4V typ/max	VGS=10V typ/max			
FP401	PCP5	250	±20	0.4	2	10	0.2	400	-	8/12	37	4	2SK2167X2
FP402		20	±15	1	2	10	0.5	1000	0.55/0.75	0.35/0.48	50	15	2SK2151X2
FP403		20	±15	0.5	2	10	0.25	300	1.8/3.5	1/1.4	48	14	PchMOSFETX

Electrical connection (Top view)
FP401, FP402 FP403

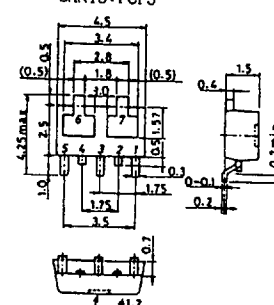


C:Collector
E:Emitter
B:Base
A:Anode
C:Cathode
G:Gate
D:Drain
S:Source
C:Common

Case Outlines
(unit:mm)



SANYO:PCP5



The FP403 and the FP501 have no Gate-to-Source protection diode. Take care when handling.

These specifications are subject to change without notice.