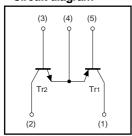
General purpose(dual transistors) **FMY5**

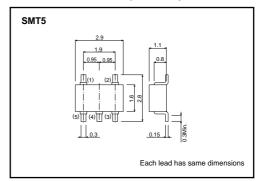
Features

- 1) Both the 2SA1514K and 2SC3906K chips in an SMT package.
- 2) PNP and NPN chips are connecter in a common emitter.

●Circuit diagram



●External dimensions (Unit : mm)



● Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit	
Collector-base voltage	Vсво	120	V	
Collector-emitter voltage	VCEO	120	V	
Emitter-base voltage	Vево	5	V	
Collector current	lc	50	mA	
Power dissipation	Pc	300(TOTAL)	mW *	
Junction temperature	Tj	150	°C	
Storage temperature	Tstg	-55 to +150	°C	

^{* 200}mW per element must not be exceeded. PNP type negative symbols have been omitted.

● Package, marking, and packaging specifications

Part No.	FMY5
Package	SMT5
Marking	Y5
Code	T148
Basic ordering unit (pieces)	3000

Rev.B

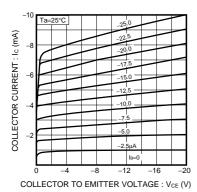
●Electrical characteristics (Ta=25°C)

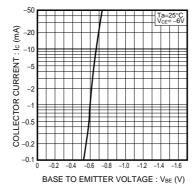
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-base breakdown voltage	ВУсво	120	-	-	V	Ic=50/-50μA
Collector-emitter breakdown voltage	BVceo	120	-	-	V	Ic = 1/-1mA
Emitter-base breakdown voltage	ВVево	5	-	-	V	I _E = 50/–50μA
Collector cutoff current	Ісво	-	-	0.5	μΑ	Vcb = 100/-100V
Emitter cutoff curren	Ієво	-	-	0.5	μΑ	V _{EB} = 4/-4V
DC current transfer ratio	hfe	180	-	820	-	Vce = 6/-6V, Ic = 2/-2mA
Collector-emitter saturation voltage	VcE(sat)	-	-	0.5	V	Ic = 10/-10mA, IB = 1/-1mA
Transition frequency	f⊤	-	140	-	MHz	VcE = 12/-12V, IE = -2/2mA, f = 100MHz *
Output capacitance	Cob	_	3/4	-	pF	VcB = 12/-12V, IE = 0A, f = 1MHz

Note:The slash denotes NPN/PNP. PNP type negative symbols have been omitted. *Transition frequency of the device.

Electrical characteristics curves

Tr1





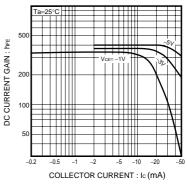


Fig.1 Ground emitter output characteristics

Fig.2 Ground emitter propagation characteristics

Fig.3 DC current gain vs. collector current

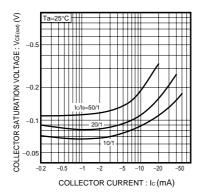


Fig.4 Collector-Emitter saturation voltage vs. collector current

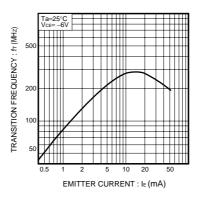


Fig.5 Transition frequency vs. emitter current

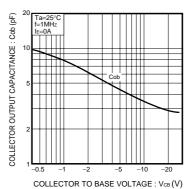


Fig.6 Collector output capacitance vs. collector-base voltage

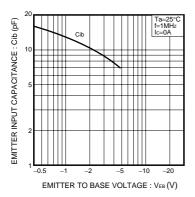


Fig.7 Emitter input capacitance vs. emitter-base voltage



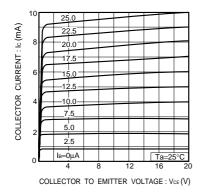


Fig.8 Ground emitter output characteristics

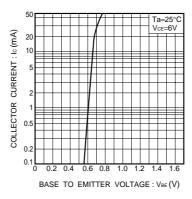


Fig.9 Ground emitter propagation characteristics

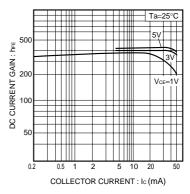


Fig.10 DC current gain vs. collector current

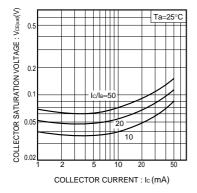


Fig.11 Collector-emitter saturation voltage vs. collector current (I)

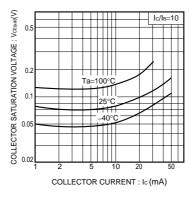


Fig.12 Collector-emitter saturation voltage vs. collector current (II)

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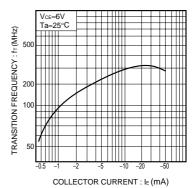


Fig.13 Transition frequency vs. emitter current

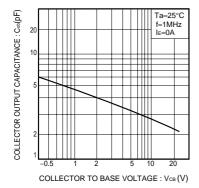


Fig.14 Collector output capacitance vs. collector-base voltage

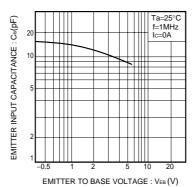


Fig.15 Emitter input capacitance vs. emitter-base voltage

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