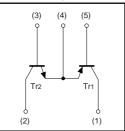
# General purpose(dual transistors) **FMY5**

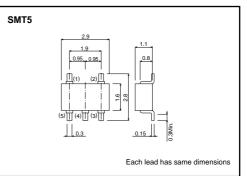
# Features

- 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	Vebo	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	

\* 200mW 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

# Transistor

### 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	Iε = 50/-50μA	
Collector cutoff current	Ісво	-	-	0.5	μΑ	Vcb = 100/-100V	
Emitter cutoff curren	Іево	-	-	0.5	μΑ	V <sub>EB</sub> = 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	fт	-	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

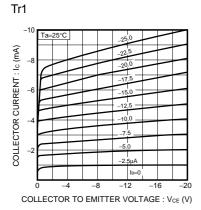


Fig.1 Ground emitter output characteristics

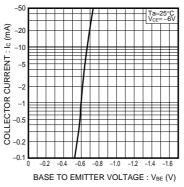


Fig.2 Ground emitter propagation characteristics

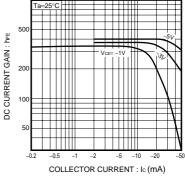


Fig.3 DC current gain vs. collector current

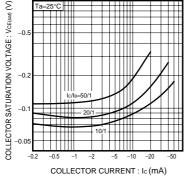
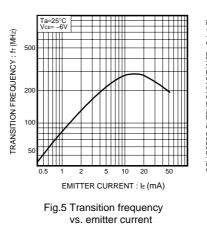
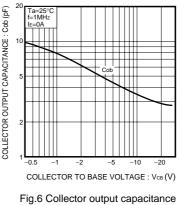
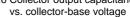
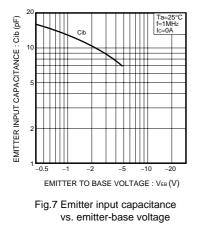


Fig.4 Collector-Emitter saturation voltage vs. collector current









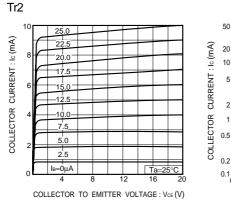
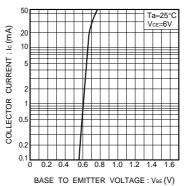
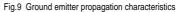
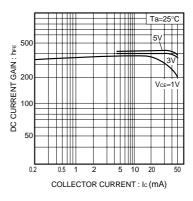


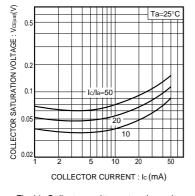
Fig.8 Ground emitter output characteristics

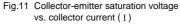


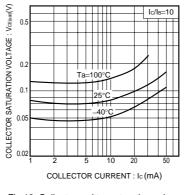


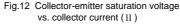


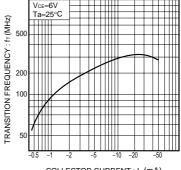


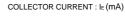


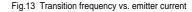






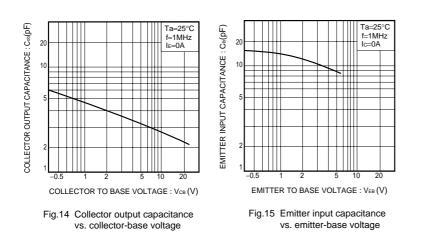






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# Transistor



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