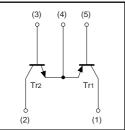
General purpose(dual transistors) **FMY5**

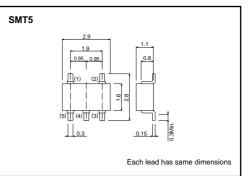
Features

- 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	μA	Vcb = 100/-100V
Emitter cutoff curren	Іево	-	-	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, Iв=1/-1mA
Transition frequency	fт	-	140	-	MHz	Vce = 12/-12V, Ie = -2/2mA, f = 100MHz
Output capacitance	Cob	-	3/4	-	pF	Vсв=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

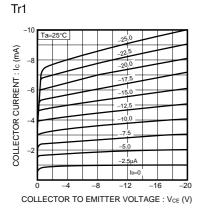


Fig.1 Ground emitter output characteristics

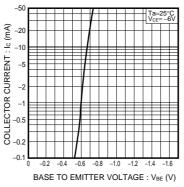


Fig.2 Ground emitter propagation characteristics

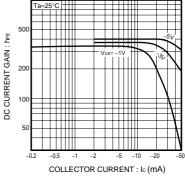


Fig.3 DC current gain vs. collector current

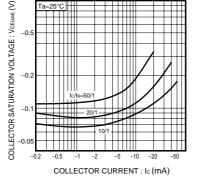
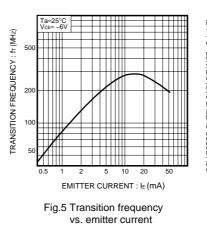
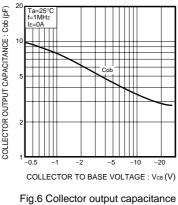
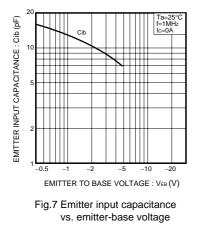


Fig.4 Collector-Emitter saturation voltage vs. collector current





vs. collector-base voltage



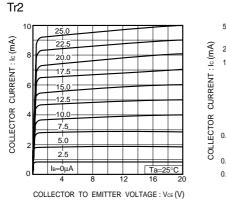
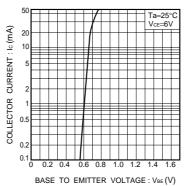


Fig.8 Ground emitter output characteristics





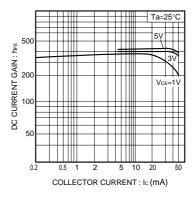
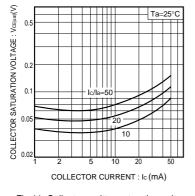
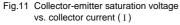
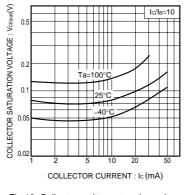
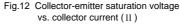


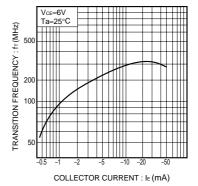
Fig.10 DC current gain vs. collector current









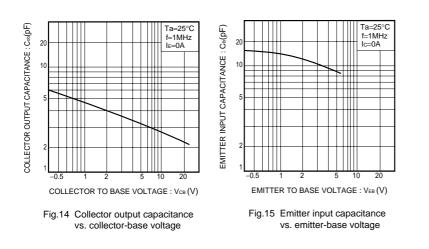




FMY5

ROHM

Transistor



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