General purpose transistor (isolated dual transistors)

IMT17

Applications

General purpose small signal amplifier

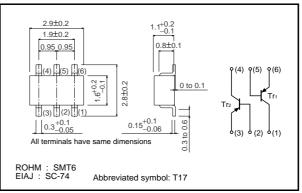
Features

- 1) Two 2SA1036K chips in an SMT package.
- 2) Same size as SMT3 package, so same mounting machine can be used for both.
- 3) Transistor elements are independent, eliminating interference.
- 4) High collector current. Ic = -500mA
- 5) Mounting cost, and area, are reduced by one half.

•External dimensions (Unit : mm)

Packaging specifications

Code



Structure

Epitaxial planar type PNP silicon transistor

The following characteristics apply to both Tr1 and Tr2.

Absolute maximum ratings (Ta=25°C)

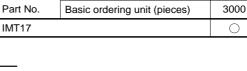
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Parameter	Symbol	Limits	Unit
Collector-base voltage	Vсво	-60	V
Collector-emitter voltage	Vceo	-50	V
Emitter-base voltage	Vebo	-5	V
Collector current	lc	-500	mA
Power dissipation	Pd	300(TOTAL)	mW *
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

* 200mW per element must not be exceeded.

Electrical characteristics(Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-base breakdown voltage	ВУсво	-60	-	-	V	lc=-100μA
Collector-emitter breakdown voltage	BVCEO	-50	-	-	V	Ic=-1mA
Emitter-base breakdown voltage	ВVево	-5	-	-	V	Iε=-100μA
Collector cutoff current	Ісво	-	-	-0.1	μΑ	V=-30V
Emitter cutoff current	Іево	-	-	-0.1	μΑ	V=-4V
Collector-emitter saturation voltage	VCE(sat)	-	-	-0.6	V	lc/I _B = -500mA/ -50mA
DC current transfer ratio	hfe	120	-	390	-	Vce=-3V, lc=-100mA *
Transition frequency	fτ	-	200	-	MHz	Vce= -5V, Ie= 20mA, f= 100MHz
Output capacitance	Cob	-	7	-	pF	Vcb= -10V, IE= 0A, f= 1MHz

* Measured using pulse current.



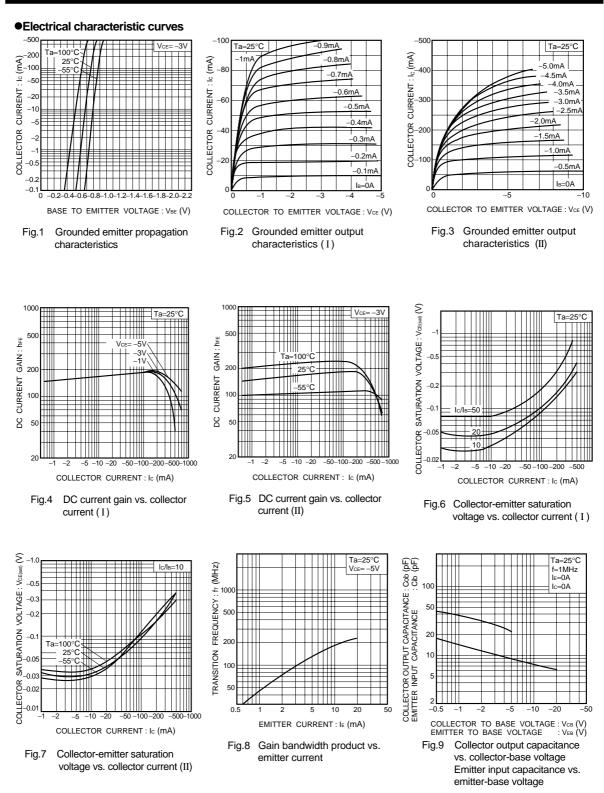
Packaging type



Taping

T110

Transistors



ROHM

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