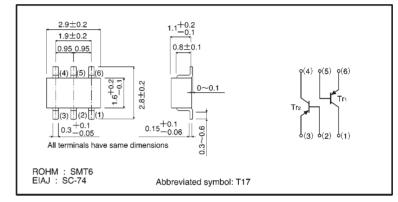
General purpose transistor (isolated dual transistors) IMT17

Features

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

External dimensions (Units: mm)

ROHM



Structure

Epitaxial planar type PNP silicon transistor

The following characteristics apply to both Tr₁ and Tr₂.

● Absolute maximum ratings (Ta = 25°C)

Parameter	Symbol	Limits	Unit
Collector-base voltage	Vсво	-60	V
Collector-emitter voltage	Vceo	-50	V
Emitter-base voltage	VEBO	-5	٧
Collector current	lc	500	mA
Power dissipation	Pd	300 (TOTAL)	mW *
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55~+150	င

^{* 200}mW per element must not be exceeded.

Transistors IMT17

●Electrical characteristics (Ta = 25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-base breakdown voltage	ВУсво	-60	_	_	٧	Ic=-100 μA
Collector-emitter breakdown voltage	BVceo	-50	_	_	٧	Ic=-1mA
Emitter-base breakdown voltage	ВVево	-5	_	_	٧	I _E =-100 μ A
Collector cutoff current	Ісво	_	_	-0.1	μΑ	V _{CB} =-30V
Emitter cutoff current	ІЕВО	_	_	-0.1	μΑ	V _{EB} =-4V
Collector-emitter saturation voltage	VCE(sat)	_	_	-0.6	٧	Ic/IB=-500mA/-50mA
DC current transfer ratio	hFE	120	_	390	_	V _{CE} =-3V, I _C =-100mA *
Transition frequency	fτ	_	200	_	MHz	VcE=-10V, IE=20mA, f=100MHz
Output capacitance	Cob	_	7	_	рF	V _{CB} =-10V, I _E =0A, f=1MHz

^{*} Measured using pulse current.

Packaging specifications

	Packaging type	Taping
	Code	T110
Part No.	Basic ordering unit (pieces)	3000
IMT17		0

Electrical characteristic curves

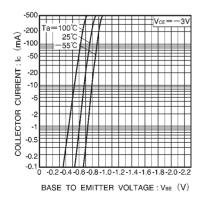


Fig.1 Grounded emitter propagation characteristics

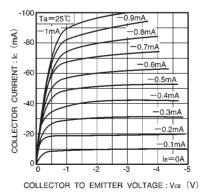


Fig.2 Grounded emitter output characteristics (I)

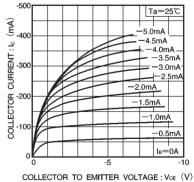


Fig.3 Grounded emitter output characteristics (II)

Transistors IMT17

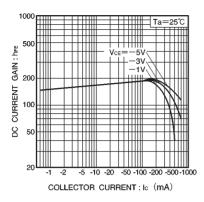


Fig.4 DC current gain vs. collector current (I)

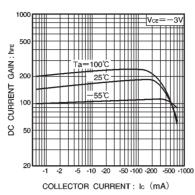


Fig.5 DC current gain vs. collector current (II)

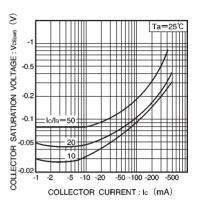


Fig.6 Collector-emitter saturation voltage vs. collector current (I)

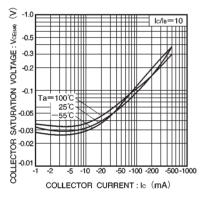


Fig.7 Collector-emitter saturation voltage vs. collector current (II)

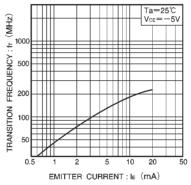


Fig.8 Gain bandwidth product vs. emitter current

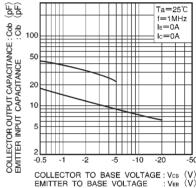


Fig.9 Collector output capacitance vs. collector-base voltage Emitter input capacitance vs. emitter-base voltage