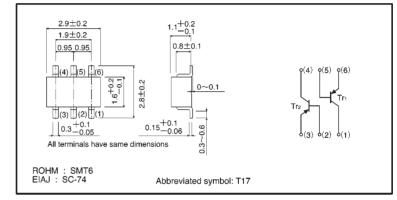
# General purpose transistor (isolated dual transistors) IMT17

## 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)



#### Structure

Epitaxial planar type PNP silicon transistor

The following characteristics apply to both Tr<sub>1</sub> and Tr<sub>2</sub>.

#### ● Absolute maximum ratings (Ta = 25°C)

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

<sup>\* 200</sup>mW per element must not be exceeded.

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# ●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 <sub>E</sub> =-100 μ A
Collector cutoff current	Ісво	_	_	-0.1	μΑ	V <sub>CB</sub> =-30V
Emitter cutoff current	ІЕВО	_	_	-0.1	μΑ	V <sub>EB</sub> =-4V
Collector-emitter saturation voltage	VCE(sat)	_	_	-0.6	٧	Ic/IB=-500mA/-50mA
DC current transfer ratio	hFE	120	_	390	_	V <sub>CE</sub> =-3V, I <sub>C</sub> =-100mA *
Transition frequency	fτ	_	200	_	MHz	VcE=-10V, IE=20mA, f=100MHz
Output capacitance	Cob	_	7	_	рF	V <sub>CB</sub> =-10V, I <sub>E</sub> =0A, f=1MHz

<sup>\*</sup> Measured using pulse current.

# Packaging specifications

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

# Electrical characteristic curves

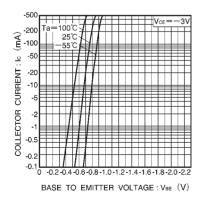


Fig.1 Grounded emitter propagation characteristics

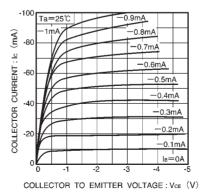


Fig.2 Grounded emitter output characteristics ( I )

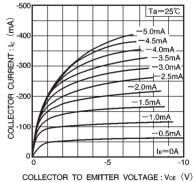


Fig.3 Grounded emitter output characteristics (II)

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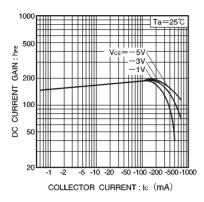


Fig.4 DC current gain vs. collector current ( I )

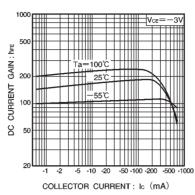


Fig.5 DC current gain vs. collector current (II)

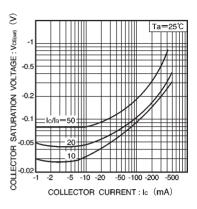


Fig.6 Collector-emitter saturation voltage vs. collector current ( I )

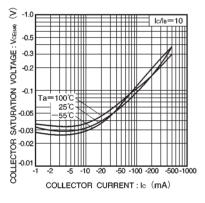


Fig.7 Collector-emitter saturation voltage vs. collector current (II)

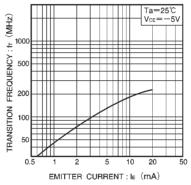


Fig.8 Gain bandwidth product vs. emitter current

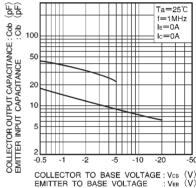


Fig.9 Collector output capacitance vs. collector-base voltage Emitter input capacitance vs. emitter-base voltage