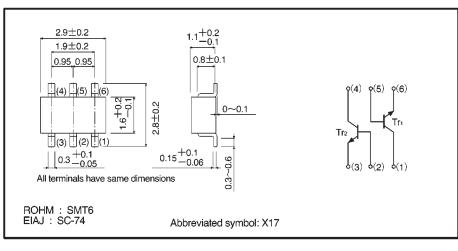
# Transistors

# General purpose transistor (dual transistors) IMX17

#### Features

- 1) Two 2SD1484K chips in an SMT package.
- Mounting possible with SMT3 automatic mounting machine.
- 3) Transistor elements are independent, eliminating interference.
- 4) High collector current. Ic = 500mA
- 5) Mounting cost and area can be cut in half.

### External dimensions (Units: mm)



Structure
 Epitaxial planar type
 NPN silicon transistor

The following characteristics apply to both  $Tr_1$  and  $Tr_2$ .

## •Absolute maximum ratings (Ta = $25^{\circ}$ C)

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~+150	°C	

\*200 mW per element must not be exceeded.



### Electrical characteristics (Ta = $25^{\circ}$ C)

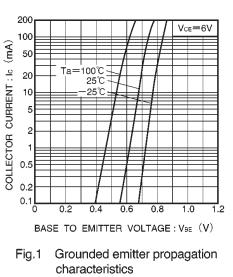
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions	
Collector-base breakdown voltage	ВУсво	60	_	_	V	Ic=100 μ A	
Collector-emitter breakdown voltage	BVCEO	50	_	_	V	Ic=1mA	
Emitter-base breakdown voltage	BVEBO	5	_	_	V	Iε=100 μ A	
Collector cutoff current	Ісво	_	_	0.1	μA	V <sub>CB</sub> =30V	
Emitter cutoff current	Іево	_	_	0.1	μA	VEB=4V	
Collector-emitter saturation voltage	VCE(sat)	_	_	0.6	V	Ic/Iв=500mA/50mA	
DC current transfer ratio	hfe	120	_	390	_	Vce=3V, lc=100mA	*
Transition frequency	fт	—	250	_	MHz	Vce=5V, le=-20mA, f=100MHz	
Output capacitance	Cob	_	7	_	pF	V <sub>CB</sub> =10V, I <sub>E</sub> =0A, f=1MHz	

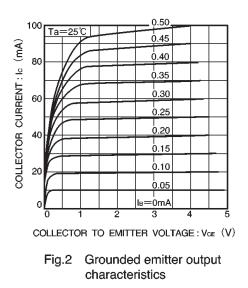
\* Measured using pulse current.

#### Packaging specifications

	Packaging type	Taping
	Code	T110
Part No.	Basic ordering unit (pieces)	3000
IMX17		0

#### •Electrical characteristic curves





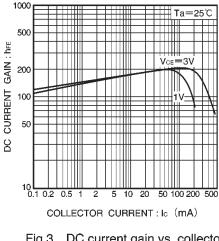
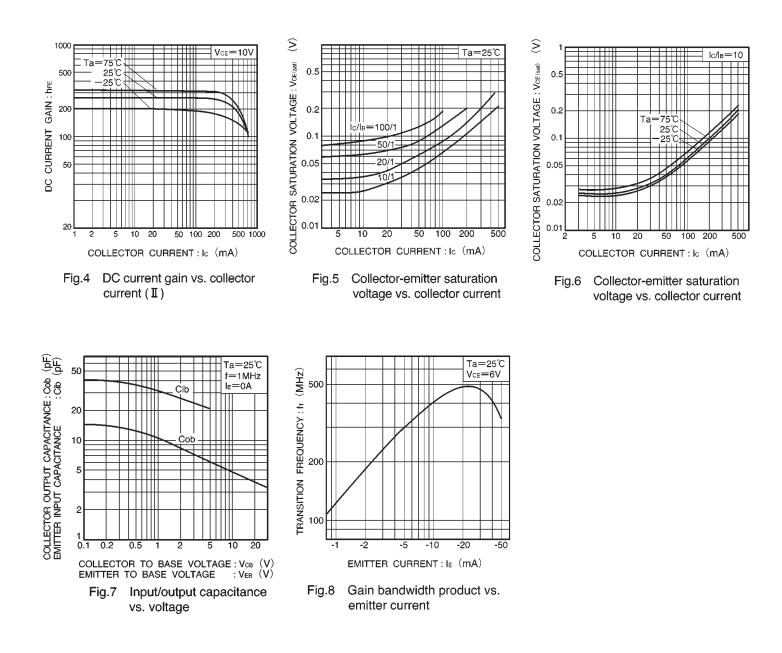


Fig.3 DC current gain vs. collector current (I)

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## Transistors



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