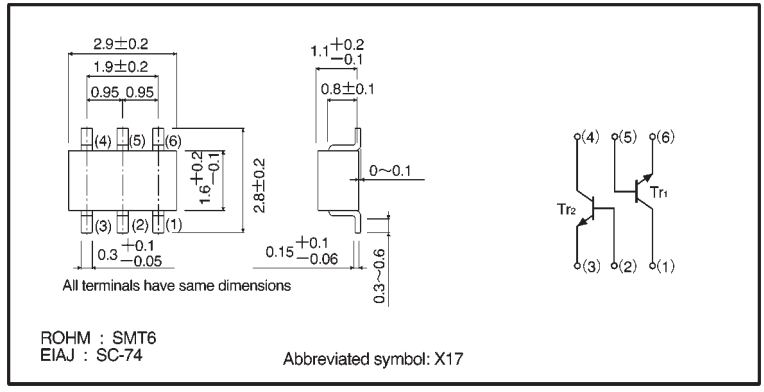
General purpose transistor (dual transistors)

IMX17

●Features

1) Two 2SD1484K chips in an SMT package.
2) Mounting possible with SMT3 automatic mounting machine.
3) Transistor elements are independent, eliminating interference.
4) High collector current.
   I_C = 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°C)

Parameter	Symbol	Limits	Unit	
Collector-base voltage	V_{CBO}	60	V	
Collector-emitter voltage	V_{CEO}	50	V	
Emitter-base voltage	V_{EBO}	5	V	
Collector current	I_C	500	mA	
Power dissipation	Pd	300(TOTAL)	mW	*
Junction temperature	Tj	150	℃	
Storage temperature	Tstg	−55～+150	℃	

*200 mW per element must not be exceeded.

●Electrical characteristics (Ta = 25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Collector-base breakdown voltage	BV_{CBO}	60	—	—	V	I_C=100 μA
Collector-emitter breakdown voltage	BV_{CEO}	50	—	—	V	I_C=1mA
Emitter-base breakdown voltage	BV_{EBO}	5	—	—	V	I_E=100 μA
Collector cutoff current	I_{CBO}	—	—	0.1	μA	V_{CB}=30V
Emitter cutoff current	I_{EBO}	—	—	0.1	μA	V_{EB}=4V
Collector-emitter saturation voltage	$V_{CE(sat)}$	—	—	0.6	V	I_C/I_B=500mA/50mA
DC current transfer ratio	h_{FE}	120	—	390	—	V_{CE}=3V, I_C=100mA *
Transition frequency	f_T	—	250	—	MHz	V_{CE}=5V, I_E=−20mA, f=100MHz
Output capacitance	Cob	—	7	—	pF	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
IMX17		◯

●Electrical characteristic curves

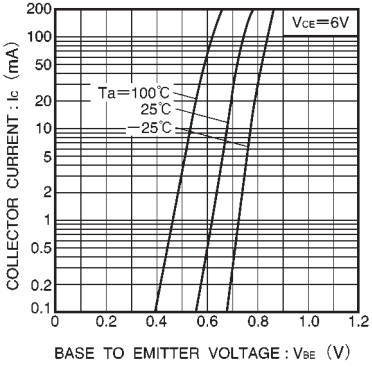


Fig.1 Grounded emitter propagation characteristics

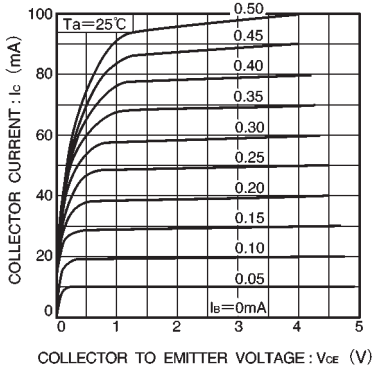


Fig.2 Grounded emitter output characteristics

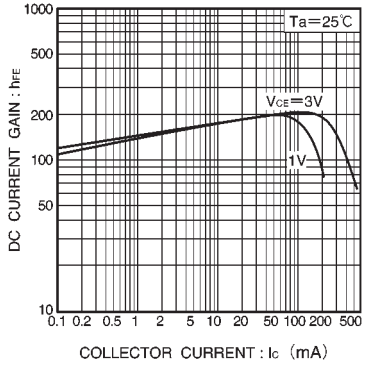


Fig.3 DC current gain vs. collector current (I)

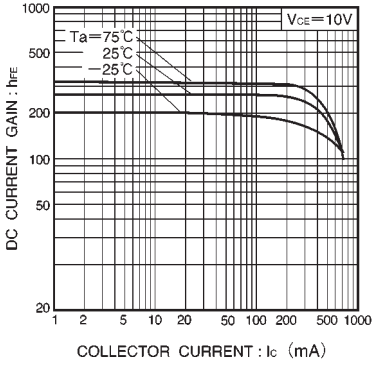


Fig.4 DC current gain vs. collector current (Ⅱ)

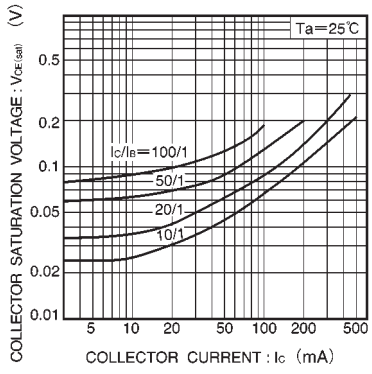


Fig.5 Collector-emitter saturation voltage vs. collector current

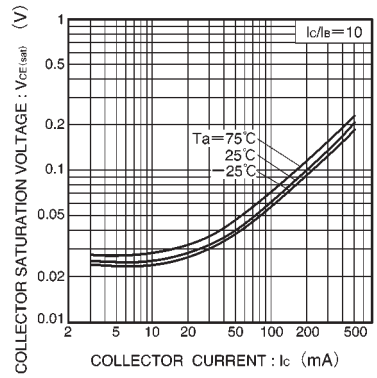


Fig.6 Collector-emitter saturation voltage vs. collector current

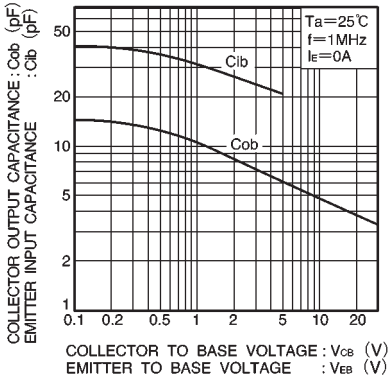


Fig.7 Input/output capacitance vs. voltage

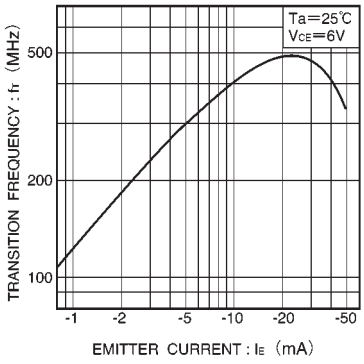


Fig.8 Gain bandwidth product vs. emitter current

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