



IMT17

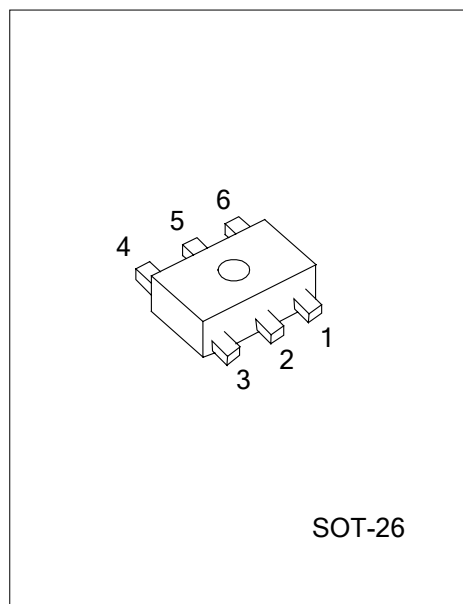
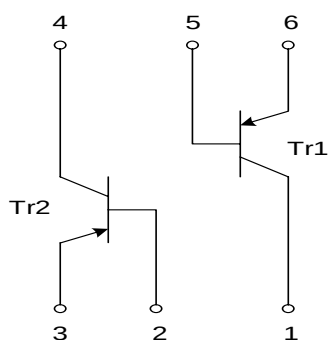
DUAL TRANSISTOR

GENERAL PURPOSE DUAL TRANSISTOR

■ FEATURES

- *Two 2SA1036 chips in an SMT package.
- *Transistor elements are independent, eliminating interference.
- *High collector current. $I_c = -500\text{mA}$

■ STRUCTURE



*Pb-free plating product number: IMT17L

■ PIN CONFIGURATION

PIN NO.	PIN NAME
1	Collector (1)
2	Base (2)
3	Emitter (2)
4	Collector (2)
5	Base (1)
6	Emitter (1)

■ ORDERING INFORMATION

Order Number		Package	Packing
Normal	Lead free		
IMT17-AG6-R	IMT17L-AG6-R	SOT-26	Tape Reel

The following characteristics apply to both Tr1 and Tr2.

■ ABSOLUTE MAXIMUM RATINGS* (Ta = 25°C)

PARAMETER	SYMBOL	RATINGS	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	P _D	300	mW*
Junction Temperature	T _J	+150	°C
Storage Temperature	T _{STG}	-40 ~ +150	°C

*200mW per element must not be exceeded.

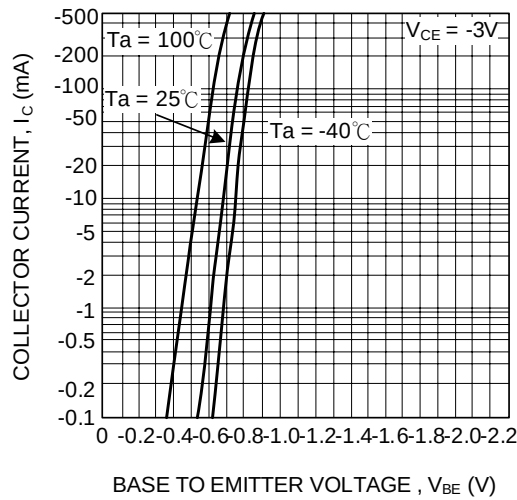
■ ELECTRICAL CHARACTERISTICS (Ta = 25°C, unless otherwise specified.)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector Base Breakdown Voltage	BV _{CBO}	I _C = -100μA	-60			V
Collector Emitter Breakdown Voltage	BV _{CEO}	I _C = -1mA	-50			V
Emitter Base Breakdown Voltage	BV _{EBO}	I _E = -100μA	-5			V
Collector Emitter Saturation Voltage	V _{CE(sat)}	I _C = -500mA, I _B = -50mA			-0.6	V
Collector Cutoff Current	I _{CBO}	V _{CB} = -30V			-0.1	μA
Emitter Cutoff Current	I _{EBO}	V _{EB} = -4V			-0.1	μA
Output Capacitance	C _{ob}	V _{CE} = -10V, I _E = 0A, f = 1MHz		7		pF
DC Current Transfer Ratio	h _{FE}	V _{CE} = -3V, I _C = -100mA	120		390	
Transition Frequency	f _T	V _{CE} = -10V, I _E = 20mA, f = 100MHz		200		MHz

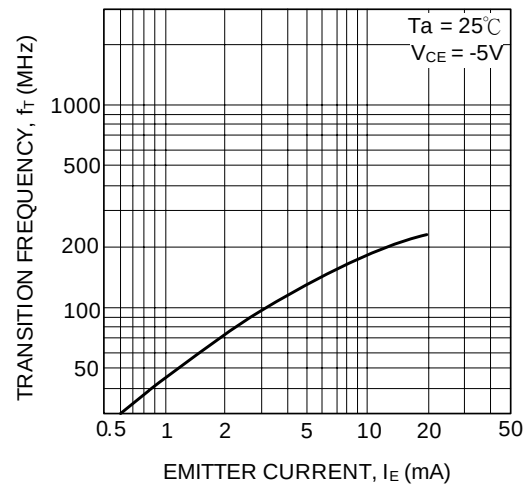
*Measured using pulse current.

■ TYPICAL CHARACTERISTICS

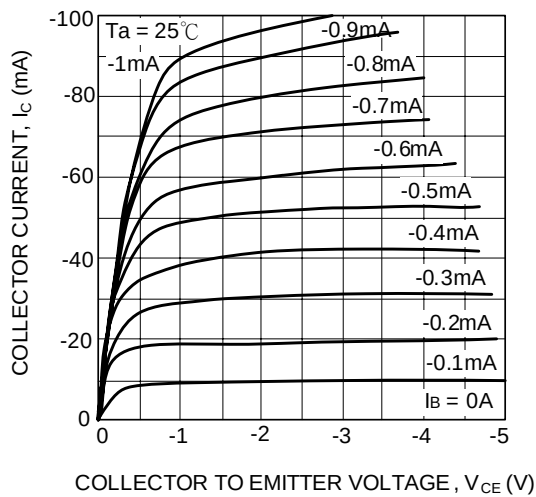
Grounded Emitter Propagation Characteristics



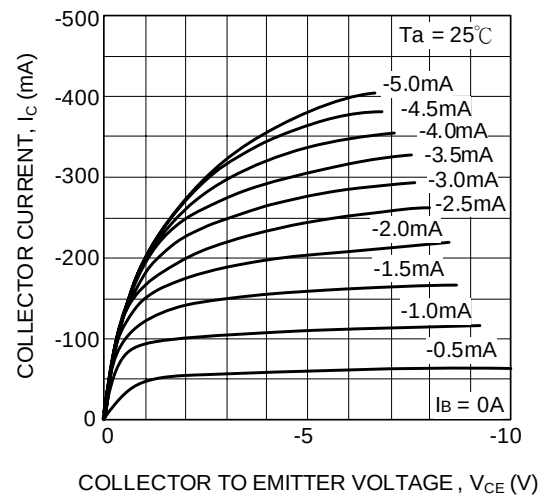
Gain Bandwidth Product vs. Emitter Current



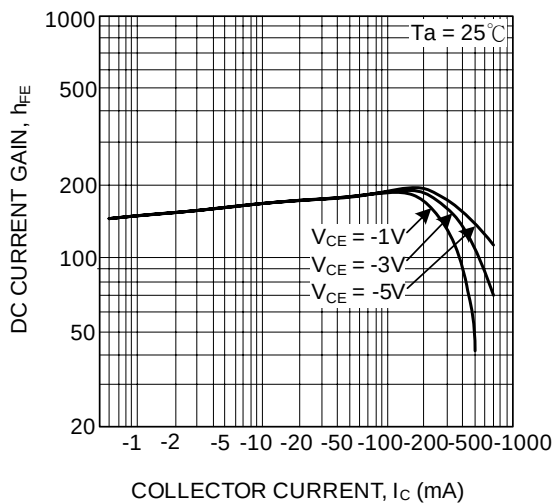
Grounded Emitter Output Characteristics (I)



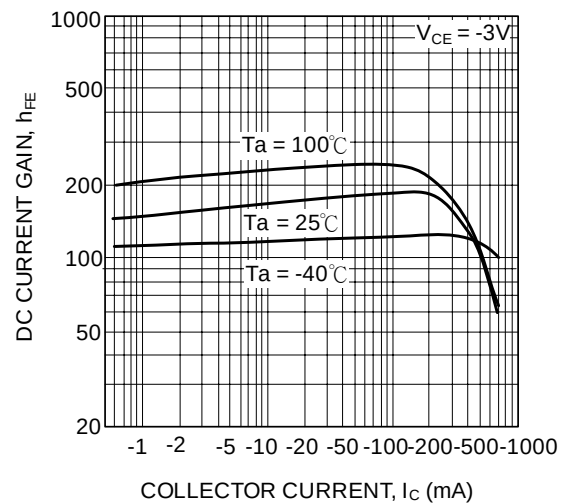
Grounded Emitter Output Characteristics (II)



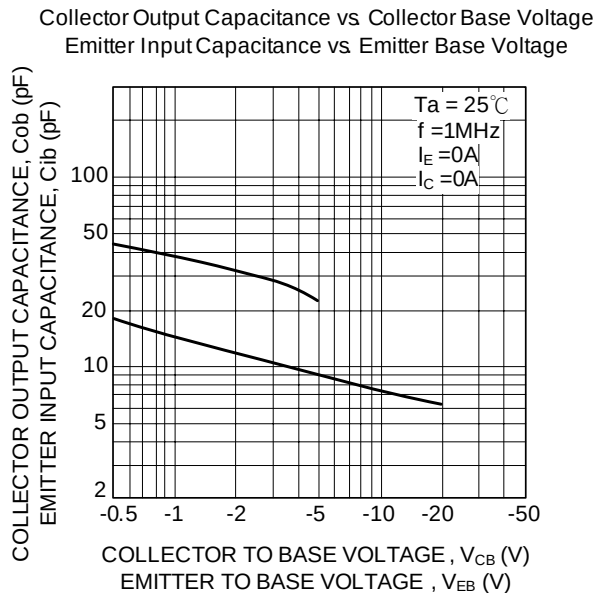
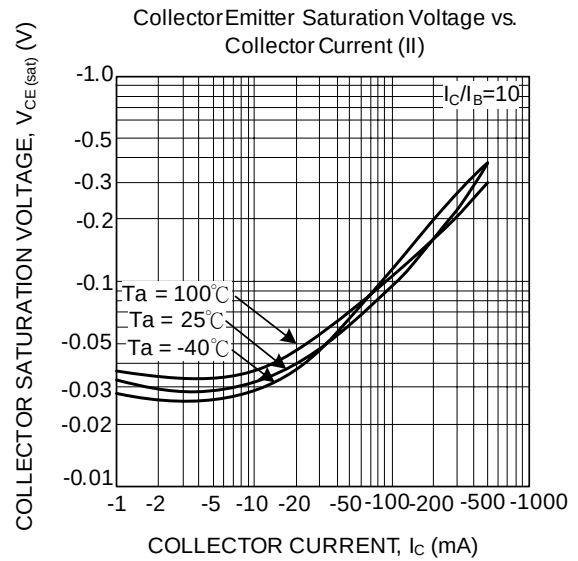
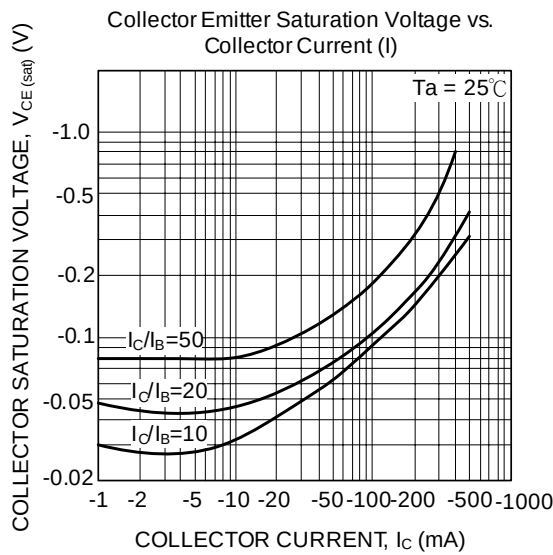
DC Current Gain vs. Collector Current (I)



DC Current Gain vs. Collector Current (II)



■ TYPICAL CHARACTERISTICS(cont.)



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