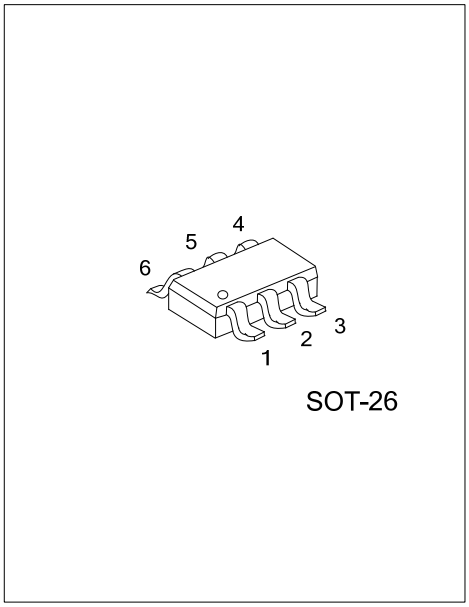
IMT17

DUAL TRANSISTOR

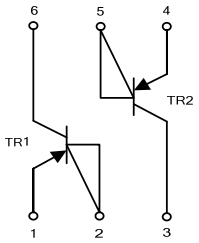
GENERAL PURPOSE DUAL TRANSISTOR



■ FEATURES

*Two MMBT2907A chips in an SMT package.
*Transistor elements are independent, eliminating interference.
*High collector current. Ic = -500mA

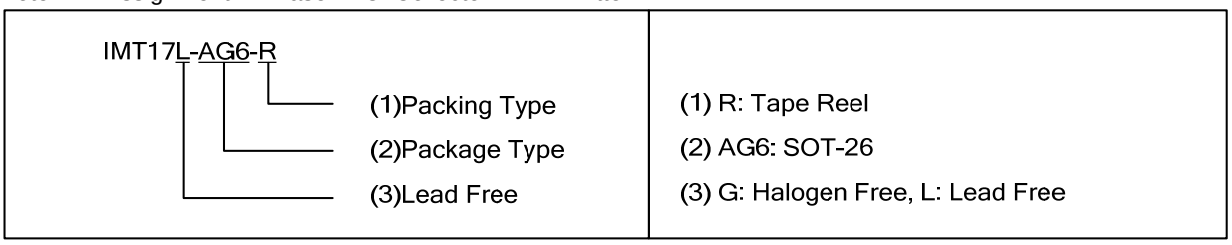
■ EQUIVALENT CIRCUITS



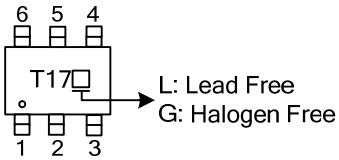
■ ORDERING INFORMATION

Ordering Number		Package	Pin Assignment						Packing
Lead Free	Halogen Free		1	2	3	4	5	6	
IMT17L-AG6 -R	IMT17G-AG6-R	SOT-26	E1	B1	C2	E2	B2	C1	Tape Reel

Note: Pin Assignment: B: Base C: Collector E: Emitter



■ MARKING



■ ABSOLUATE MAXIUM RATINGS* (Ta = 25℃)

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	Ic	-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.

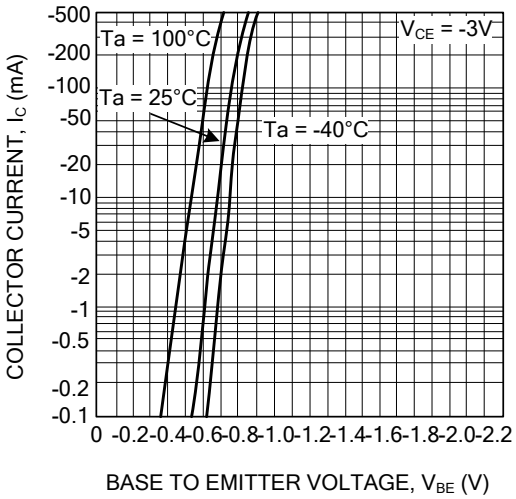
■ ELECTRICAL CHARACTERISTICS (Ta= 25℃, unless otherwise specified.)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector Base Breakdown Voltage	BV_{CBO}	Ic = -100μA	-60			V
Collector Emitter Breakdown Voltage	BV_{CEO}	Ic = -1mA	-50			V
Emitter Base Breakdown Voltage	BV_{EBO}	I_E = -100μA	-5			V
Collector Emitter Saturation Voltage	$V_{CE(sat)}$	Ic = -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	Cob	V_{CE} = -10V, I_E=0A, f =1MHz		7		pF
DC Current Transfer Ratio	h_{FE}	V_{CE} = -3V, Ic = -100mA	120		390	
Transition Frequency	f_T	V_{CE} = -10V, I_E =20mA, f =100MHz		200		MHz

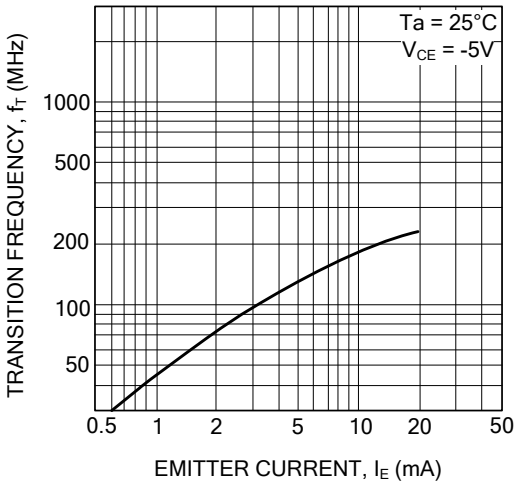
*Measured using pulse current.

■ TYPICAL CHARACTERICS

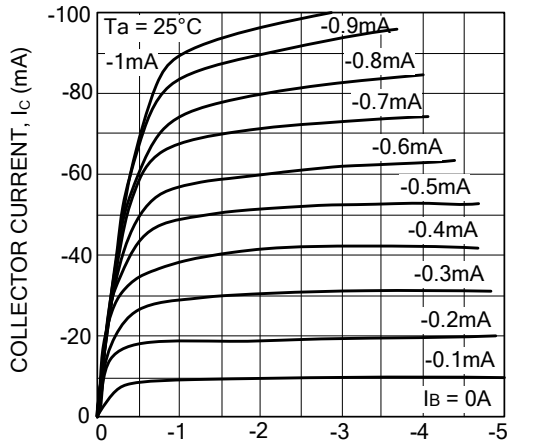
Grounded Emitter Propagaton Characteristics



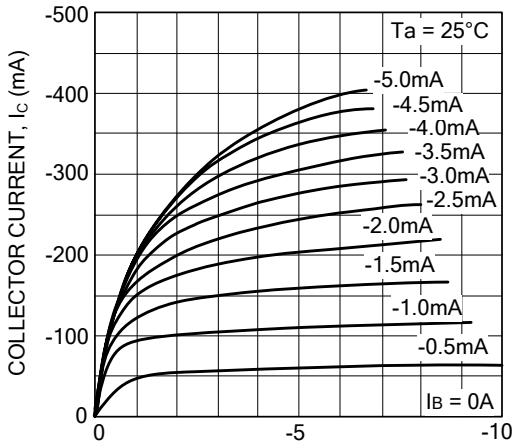
Gain Bandwidth Product vs. Emitter Current



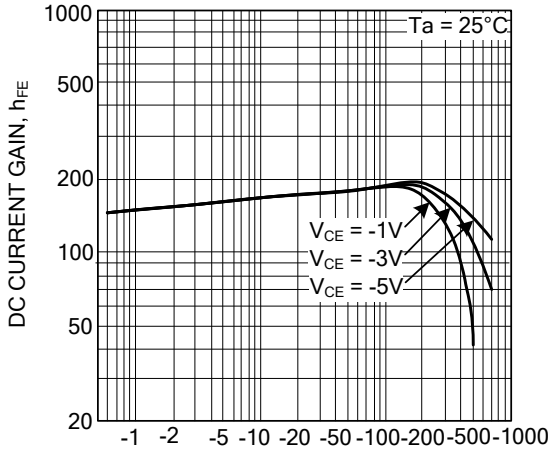
Grounded Emitter Output Characteristics (I)



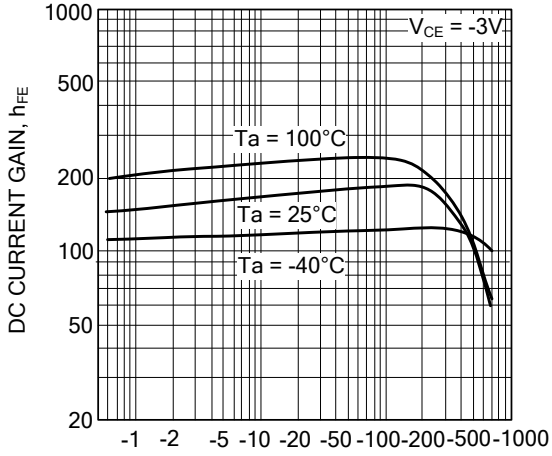
Grounded Emitter Output Characteristics (II)



DC Current Gain vs. Collector Current (I)

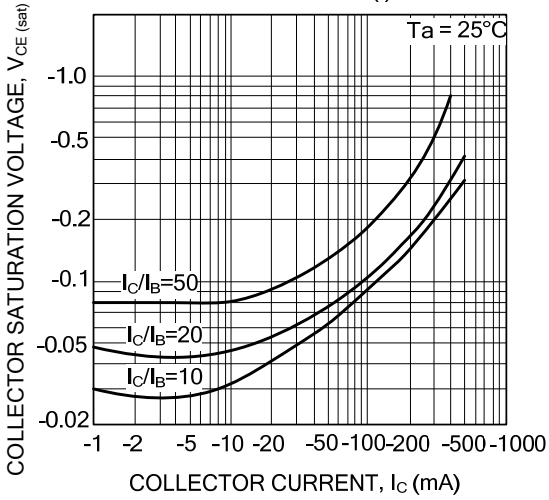


DC Current Gain vs. Collector Current (II)

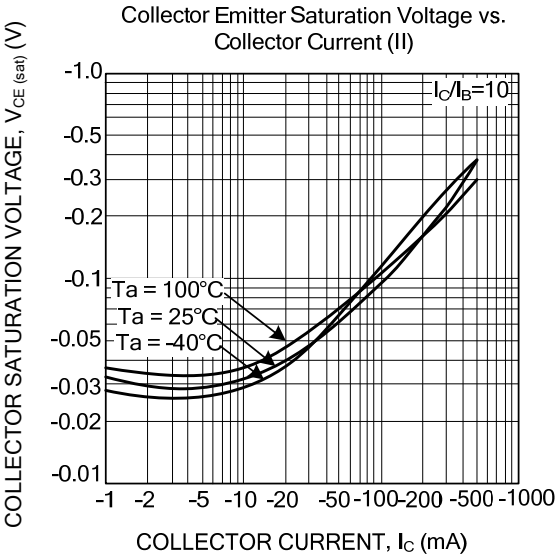


■ TYPICAL CHARACTERICS(cont.)

Collector Emitter Saturation Voltage vs. Collector Current (I)



Collector Emitter Saturation Voltage vs. Collector Current (II)



Collector Output Capacitance vs. Collector Base Voltage
Emitter Input Capacitance vs. Emitter Base Voltage