



**THE DATASHEET OF
IMZ4T108**



● Electrical characteristics (Ta = 25°C)

Tr₁ (NPN)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Collector-base breakdown voltage	BV _{CB0}	40	—	—	V	I _c =100 μA
Collector-emitter breakdown voltage	BV _{CE0}	32	—	—	V	I _c =1mA
Emitter-base breakdown voltage	BV _{EB0}	5	—	—	V	I _E =100 μA
Collector cutoff current	I _{CB0}	—	—	0.1	μA	V _{CB} =20V
Emitter cutoff current	I _{EB0}	—	—	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	—	560	—	V _{CE} =3V, I _c =100mA
Transition frequency	f _T	—	250	—	MHz	V _{CE} =5V, I _E =-20mA, f=100MHz
Output capacitance	C _{ob}	—	6.5	—	pF	V _{CB} =10V, I _E =0A, f=1MHz

* Measured using pulse current.

● Electrical characteristics (Ta = 25°C)

Tr₂ (PNP)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Collector-base breakdown voltage	BV _{CB0}	-40	—	—	V	I _c =-100 μA
Collector-emitter breakdown voltage	BV _{CE0}	-32	—	—	V	I _c =-1mA
Emitter-base breakdown voltage	BV _{EB0}	-5	—	—	V	I _E =-100 μA
Collector cutoff current	I _{CB0}	—	—	-0.1	μA	V _{CB} =-20V
Emitter cutoff current	I _{EB0}	—	—	-0.1	μA	V _{EB} =-4V
Collector-emitter saturation voltage	V _{CE(sat)}	—	—	-0.6	V	I _c /I _b =-300mA/-30mA
DC current transfer ratio	h _{FE} *	120	—	560	—	V _{CE} =-3V, I _c =-100mA
Transition frequency	f _T	—	200	—	MHz	V _{CE} =-5V, I _E =20mA, f=100MHz
Output capacitance	C _{ob}	—	7	—	pF	V _{CB} =-10V, I _E =0A, f=1MHz

* Measured using pulse current.

● Packaging specifications

Prat No.	Packaging type	Taping
	Code	T108
	Basic ordering unit (pieces)	3000
IMZ4		○

● Electrical characteristic curves

Tr₁ (NPN)

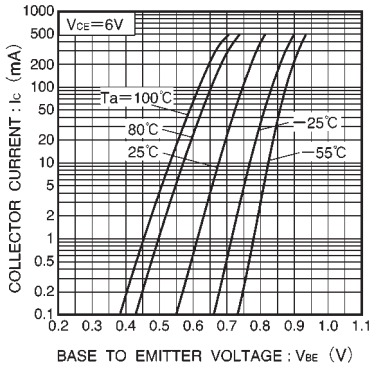


Fig.1 Grounded emitter propagation characteristics

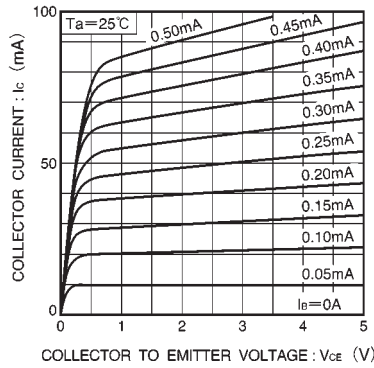


Fig.2 Grounded emitter output characteristics (I)

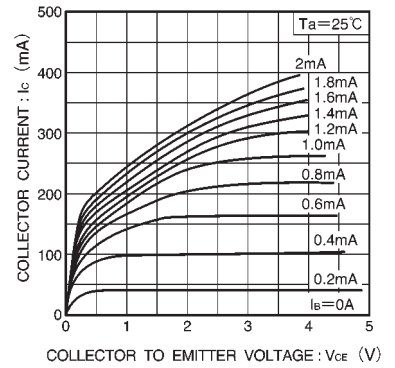


Fig.3 Grounded emitter output characteristics (II)

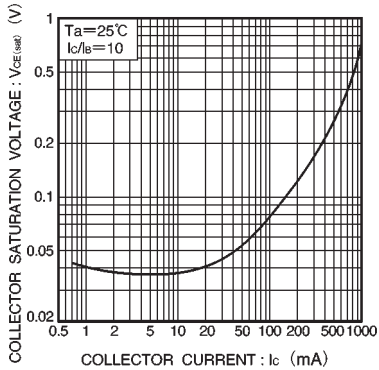


Fig.4 Collector-emitter saturation voltage vs. collector current

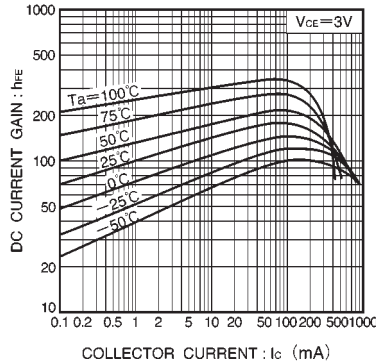


Fig.5 DC current gain vs. collector current

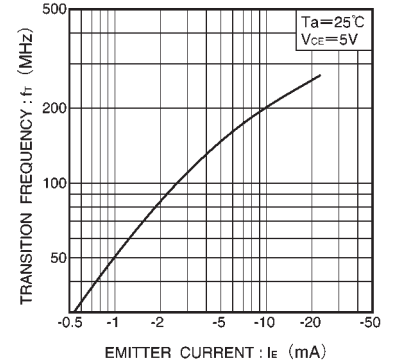


Fig.6 Gain bandwidth product vs. emitter current

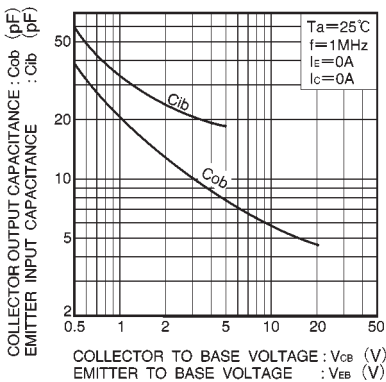


Fig.7 Collector output capacitance vs. collector-base voltage
Emitter input capacitance vs. emitter-base voltage

● Electrical characteristic curves

Tr₂ (PNP)

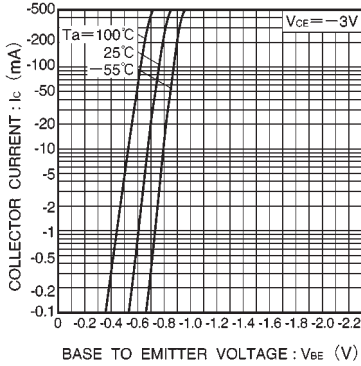


Fig.8 Grounded emitter propagation characteristics

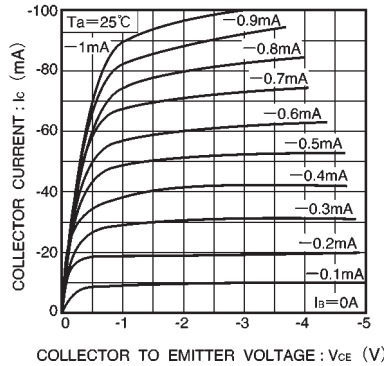


Fig.9 Grounded emitter output characteristics (I)

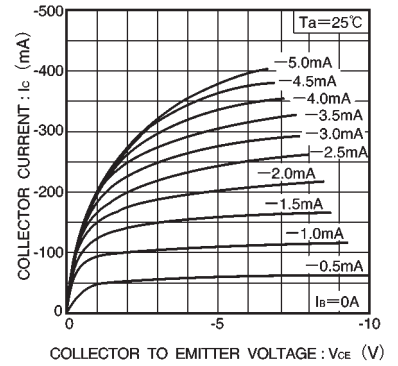


Fig.10 Grounded emitter output characteristics (II)

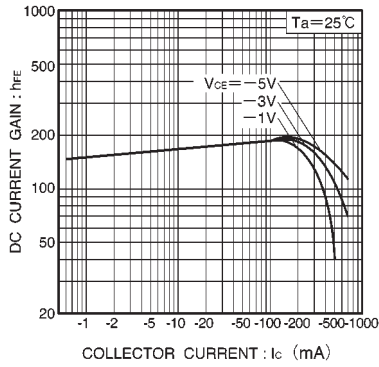


Fig.11 DC current gain vs. collector current (I)

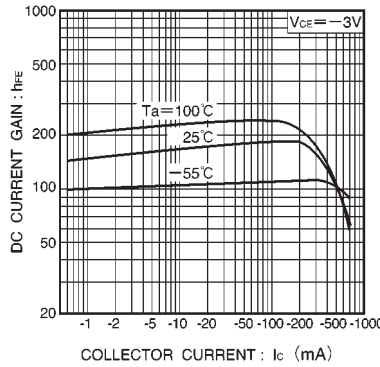


Fig.12 DC current gain vs. collector current (II)

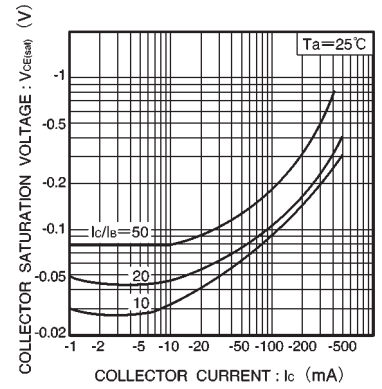


Fig.13 Collector-emitter saturation voltage vs. collector current (I)

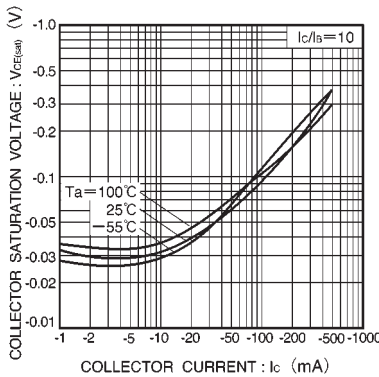


Fig.14 Collector-emitter saturation voltage vs. collector current (II)

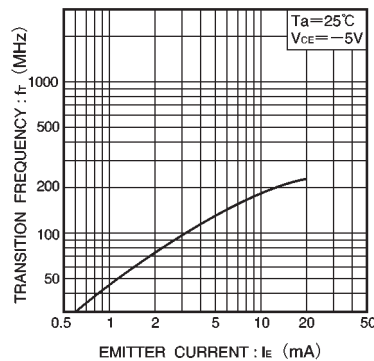


Fig.15 Gain bandwidth product vs. emitter current

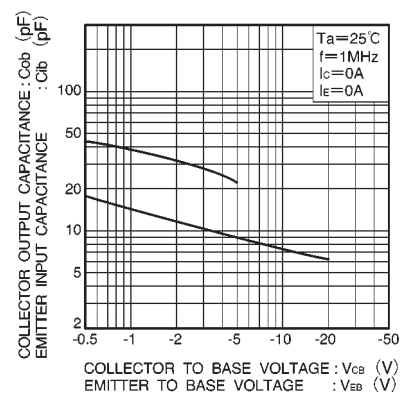




Fig.16 Collector output capacitance vs. collector-base voltage
Emitter input capacitance vs. emitter-base voltage

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