

# General purpose (dual transistors)

## IMT4

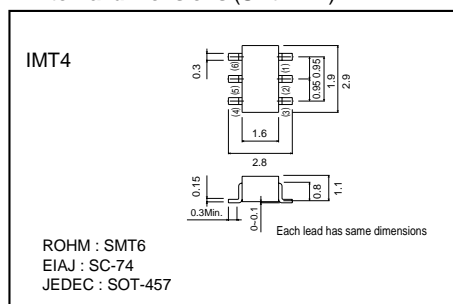
### ●Features

- 1) Two 2SA1514K chips in an AMT package.
- 2) High breakdown voltage.

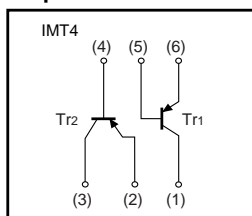
### ●Package, marking, and Packaging specifications

Part No.	IMT4
Package	SMT6
Marking	T4
Code	T108
Basic ordering unit (pieces)	3000

### ●External dimensions (Unit : mm)



### ●Equivalent circuit



### ●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Collector-base voltage	V <sub>CB0</sub>	-120	V
Collector-emitter voltage	V <sub>CEO</sub>	-120	V
Emitter-base voltage	V <sub>EBO</sub>	-5	V
Collector current	I <sub>c</sub>	-50	mA
Power dissipation	P <sub>c</sub>	300 (TOTAL)	mW *
Junction temperature	T <sub>j</sub>	150	°C
Storage temperature	T <sub>stg</sub>	-55 to +150	°C

\*200mW per element must not be exceeded.

### ●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Collector-base breakdown voltage	BV <sub>CB0</sub>	-120	-	-	V	I <sub>c</sub> =-50μA
Collector-emitter breakdown voltage	BV <sub>CEO</sub>	-120	-	-	V	I <sub>c</sub> =-1mA
Emitter-base breakdown voltage	BV <sub>EBO</sub>	-5	-	-	V	I <sub>E</sub> =-50μA
Collector cutoff current	I <sub>CB0</sub>	-	-	-0.5	μA	V <sub>CB</sub> =-100V
Emitter cutoff current	I <sub>EBO</sub>	-	-	-0.5	μA	V <sub>EB</sub> =-4V
DC current transfer ratio	h <sub>FE</sub>	180	-	820	-	V <sub>CE</sub> =-6V, I <sub>c</sub> =-2mA
Transition frequency	f <sub>r</sub>	-	140	-	MHz	V <sub>CE</sub> =-12V, I <sub>E</sub> =2mA, f=100MHz *
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	-	-	-0.5	V	I <sub>c</sub> /I <sub>B</sub> =-10mA/-1mA

\*Transition frequency of the device.

Transistors

● Electrical characteristic curves

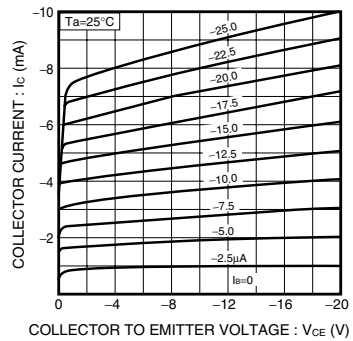


Fig.1 Ground emitter output characteristics

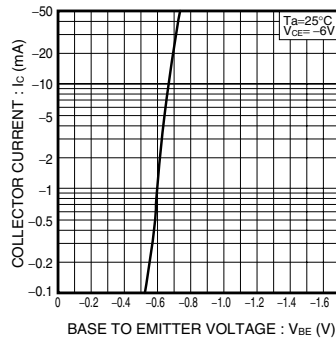


Fig.2 Ground emitter propagation characteristics

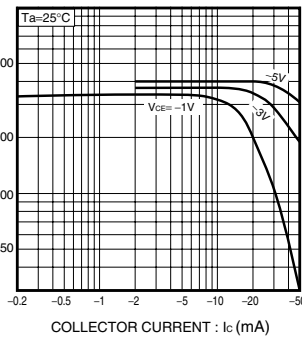


Fig.3 DC current gain vs. collector current

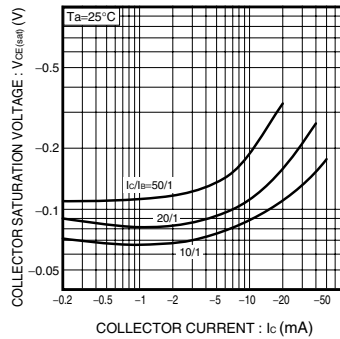


Fig.4 Collector-Emitter saturation voltage vs. collector current

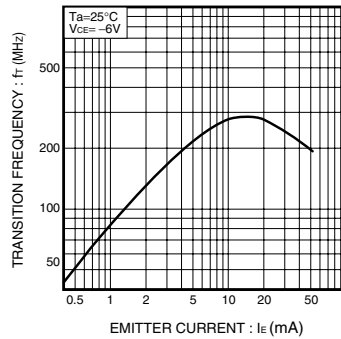


Fig.5 Transition frequency vs. emitter current

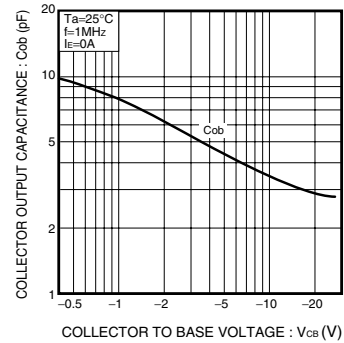


Fig.6 Collector output capacitance vs. collector-base voltage

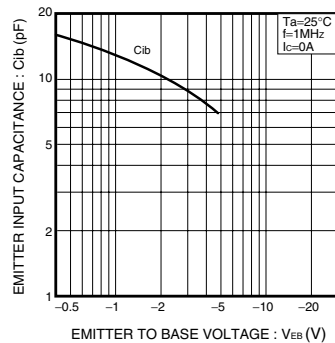


Fig.7 Emitter input capacitance vs. emitter-base voltage

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