# General purpose (dual transistors) IMT4

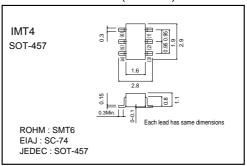
#### Features

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

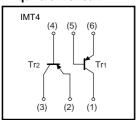
# ● Package, marking, and Packaging specifications

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	Vсво	-120	V	
Collector-emitter voltage	VCEO	-120	V	
Emitter-base voltage	Vево	-5	V	
Collector current	Ic	-50	mA	
Power dissipation	Pc	300 (TOTAL)	mW *	
Junction temperature	Tj	150	°C	
Storage temperature	Tstg	-55 to +150	°C	

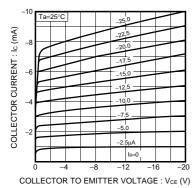
<sup>\*200</sup>mW per element must not be exceeded.

# ●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-base breakdown voltage	ВУсво	-120	-	-	V	Ic=-50μA
Collector-emitter breakdown voltage	BVceo	-120	-	-	V	Ic=-1mA
Emitter-base breakdown voltage	ВVево	-5	-	-	V	I <sub>E</sub> =-50μA
Collector cutoff current	Ісво	_	_	-0.5	μΑ	VcB=-100V
Emitter cutoff current	ІЕВО	-	-	-0.5	μΑ	V <sub>EB</sub> =-4V
DC current transfer ratio	hfe	180	-	820	-	Vce=-6V, Ic-2mA
Transition frequency	f⊤	_	140	_	MHz	Vc=-12V, Ie=2mA, f=100MHz *
Collector-emitter saturation voltage	VcE(sat)	_	-	-0.5	V	Ic/I <sub>B</sub> =-10mA/-1mA

<sup>\*</sup>Transition frequency of the device.

#### •Electrical characteristic curves



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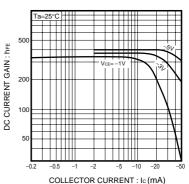


Fig.1 Ground emitter output characteristics

Fig.2 Ground emitter propagation characteristics

Fig.3 DC current gain vs. collector current

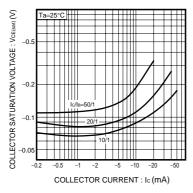


Fig.4 Collector-Emitter saturation voltage vs. collector current

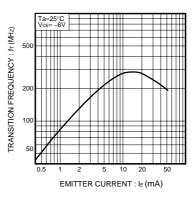


Fig.5 Transition frequency vs. emitter current

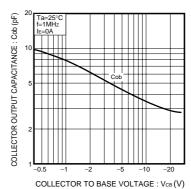


Fig.6 Collector output capacitance vs. collector-base voltage

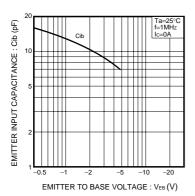


Fig.7 Emitter input capacitance vs. emitter-base voltage

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