## General purpose (dual transistors) IMT4

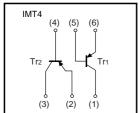
## Features

- 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

## 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	Vebo	-5	V		
Collector current	lc	-50	mA		
Power dissipation	Pc	300 (TOTAL)	mW *		
Junction temperature	Tj	150	°C		
Storage temperature	Tstg	-55 to +150	°C		

\*200mW per element must not be exceeded.

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

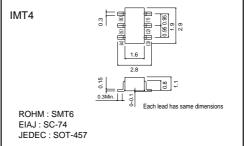
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions	
Collector-base breakdown voltage	ВУсво	-120	-	-	V	Ic=-50μA	
Collector-emitter breakdown voltage	BVCEO	-120	-	-	V	Ic=-1mA	
Emitter-base breakdown voltage	ВУево	-5	-	-	V	Ιε=-50μΑ	
Collector cutoff current	Ісво	-	-	-0.5	μΑ	Vcb=-100V	
Emitter cutoff current	Іево	-	-	-0.5	μΑ	V <sub>EB</sub> =-4V	
DC current transfer ratio	hfe	180	-	820	-	Vce=-6V, Ic-2mA	
Transition frequency	fт	-	140	-	MHz	Vce=-12V, Ie=2mA, f=100MHz	*
Collector-emitter saturation voltage	VCE(sat)	-	-	-0.5	V	Ic/IB=-10mA/-1mA	

\*Transition frequency of the device.



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•External dimensions (Unit : mm)



## Transistors

### •Electrical characteristic curves

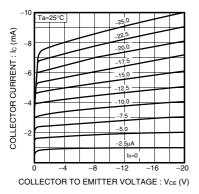


Fig.1 Ground emitter output characteristics

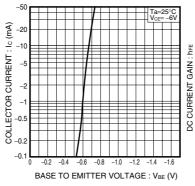


Fig.2 Ground emitter propagation characteristics

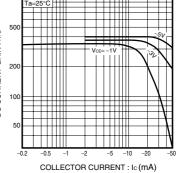


Fig.3 DC current gain vs. collector current

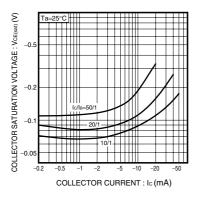


Fig.4 Collector-Emitter saturation voltage vs. collector current

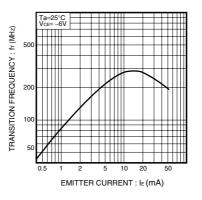


Fig.5 Transition frequency vs. emitter current

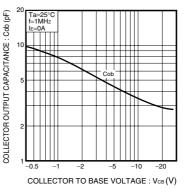
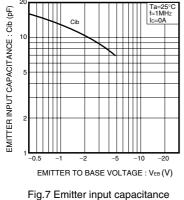


Fig.6 Collector output capacitance vs. collector-base voltage



vs. emitter-base voltage

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