General purpose (dual transistors) IMT4

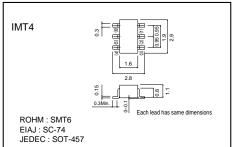
Features

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

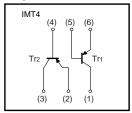
● Package, marking, and Packaging specifications

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	VEBO	-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	

^{*200}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	ВУево	-5	-	-	V	Iε=-50μA
Collector cutoff current	Ісво	-	-	-0.5	μΑ	VcB=-100V
Emitter cutoff current	Ієво	-	-	-0.5	μΑ	V _{EB} =-4V
DC current transfer ratio	hre	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 _B =-10mA/-1mA

^{*}Transition frequency of the device.

Electrical characteristic curves

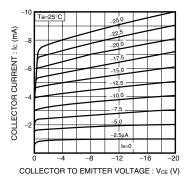


Fig.1 Ground emitter output characteristics

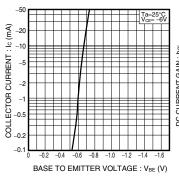


Fig.2 Ground emitter propagation characteristics

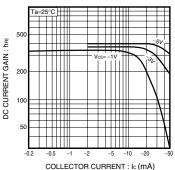


Fig.3 DC current gain vs. collector current

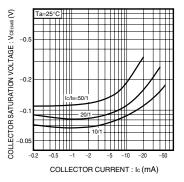


Fig.4 Collector-Emitter saturation voltage vs. collector current

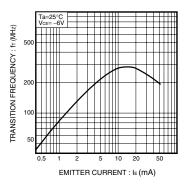


Fig.5 Transition frequency vs. emitter current

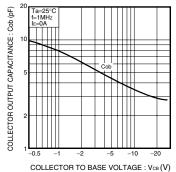


Fig.6 Collector output capacitance vs. collector-base voltage

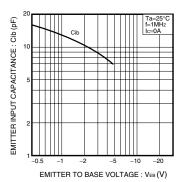


Fig.7 Emitter input capacitance vs. emitter-base voltage

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