IMB5A

Transistors

General purpose (dual digital transistors) IMB5A

Feature

1) Two DTA124E chips in a UMT or SMT package.

● Absolute maximum ratings (Ta=25°C)

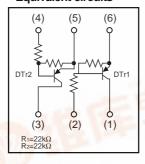
Parameter	Symbol	Limits	Unit				
Supply voltage	Vcc	-50	V				
lanut valtana	Vin	-40	V				
Input voltage	VIN	10					
Output current	lo	-30	mA				
Collector current	Ic(MAX)	-100	mA				
Power dissipation	Pd	300(TOTAL)	mW *				
Junction temperature	Tj	150	°C				
Storage temperature	Tstg	-55 to +150	°C				

^{* 200}mW per element must not be exceeded

Package, marking, and packaging specifications WW.DZSC.COM

Part No.	IMB5A
Package	SMT6
Marking	B5
Code	T110
Basic ordering unit (pieces)	3000

Equivalent circuits

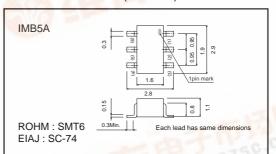


Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Input voltage	VI(off)	_	_	-0.5	V	Vcc=-5V , Io=-100μA
	VI(on)	-3	_	- /		Vo=-0.2V , Io=-5mA
Output voltage	Vo(on)	-	-0.1	-0.3	V	lo=-10mA , lı=-0.5mA
Input current	lı .			-0.36	mA	V ₁ =-5V
Output current	IO(off)	7-1		-0.5	μΑ	Vcc=-50V , Vi=0V
DC current gain	Gı	56	C	-	_	Vo=-5V , Io=-5mA
Transition frequency	fτ *	D	250	_	MHz	Vce=-10V , Ie=5mA , f=100MHz
Input resistance	R ₁	15.4	22	28.6	kΩ	_
Resistance ratio	R ₂ /R ₁	0.8	1	1.2	_	_

^{*} Characteristics of built-in transistor

●External dimensions (Unit: mm)





•Electrical characteristics curves

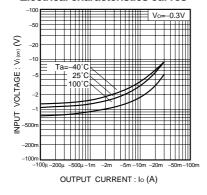


Fig.1 Input voltage vs. output current (ON characteristics)

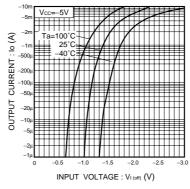


Fig.2 Output current vs. input voltage (OFF characteristics)

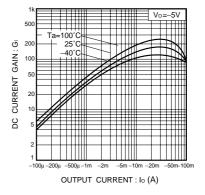


Fig.3 DC current gain vs. output current

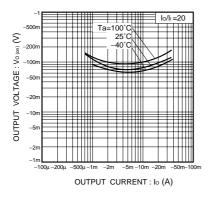


Fig.4 Output voltage vs. output current

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