

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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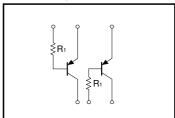


General purpose (dual digital transistors) IMB7A

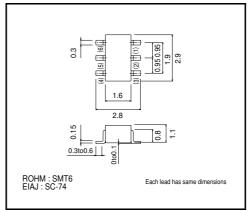
●Features

1) Two DTA143T chips in a SMT package.

●Circuit diagram



●External dimensions (Unit : mm)



● Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Collector-base voltage	VcBo	-50	V
Collector-emitter voltage	VCEO	-50	V
Emitter-base voltage	VEBO	-5	V
Collector current	Ic	-100	mA
Collector 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.

●Package, marking, and packaging specifications

Туре	IMB7A		
Package	SMT6		
Marking	B7		
Code	T108		
Basic ordering unit (pieces)	3000		

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-base breakdown voltage	ВУсво	-50	_	_	V	Ic= -50μA
Collector-emitter breakdown voltage	BVceo	-50	_	_	V	Ic=-1mA
Emitter-base breakdown voltage	ВУево	-5	_	_	V	I _E = -50μA
Collector cutoff current	Ісво	_	_	-0.5	μΑ	V _{CB} = -50V
Emitter cutoff current	ІЕВО	_	_	-0.5	μΑ	V _{EB} = -4V
DC current transfer ratio	hfe	100	250	600	_	VcE/Ic= -5V/-1mA
Collector-emitter saturation voltage	VCE(sat)	_	-	-0.3	V	Ic/I _B = -5mA /-0.25mA
Input resistance	R ₁	3.29	4.7	6.11	kΩ	_

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