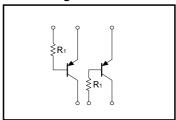
# General purpose (dual digital transistors) IMB7A

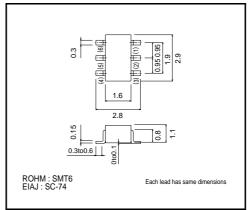
### Features

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	Vсво	-50	V
Collector-emitter voltage	Vceo	-50	V
Emitter-base voltage	Vево	-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

<sup>\*200</sup>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	Iε= -50μA
Collector cutoff current	Ісво	_	_	-0.5	μΑ	Vcb= -50V
Emitter cutoff current	Ієво	_	_	-0.5	μΑ	V <sub>EB</sub> = -4V
DC current transfer ratio	hfe	100	250	600	_	Vce/lc= -5V/-1mA
Collector-emitter saturation voltage	VcE(sat)	_	-	-0.3	V	Ic/I <sub>B</sub> = -5mA /-0.25mA
Input resistance	R <sub>1</sub>	3.29	4.7	6.11	kΩ	_

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