# Power management (dual digital transistors)

# IMD1A

#### Features

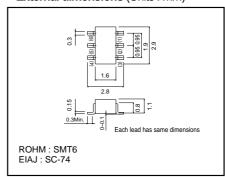
1) Both the DTA124T chip and DTC124T chip in a SMT package.

## ● 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	VEBO	5	V	
Collector current	lc	100	mA	
Collector power dissipation	Pc	300(TOTAL)	mW *	
Junction temperature	Tj	150	°C	
Storage temperature	Tstg	-55~+150	°C	

<sup>\* 200</sup>mW per element must not be exceeded. PNP type negative symbols have been omittee

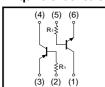
#### ●External dimensions (Units : mm)



### ● Package, marking, and packaging specifications

Туре	IMD1A
Package	SMT6
Marking	D1
Code	T108
Basic ordering unit (pieces)	3000

#### ●Equivalent circuit



#### ●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	μА	Vcb=50V
Emitter cutoff current	Ієво	-	-	0.5	μА	V <sub>EB</sub> =4V
Collector-emitter saturation voltage	VCE(sat)	-	-	0.3	V	Ic/Iв=5mA/0.5mA
DC current transfer ratio	hre	100	250	600	-	VcE=5V, Ic=1mA
Transition frequency	fτ	-	250	-	MHz	VcE=10V, IE=-5mA, f=100MHz *
Input resistance	R <sub>1</sub>	15.4	22	28.6	kΩ	-

<sup>\*</sup> Transition frequency of mounted transistor. PNP type negative symbols have been omitted.

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