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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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# Digital Transistor (Dual Digital Transistors for Inverter Drive)

## IMD8A

### ●Features

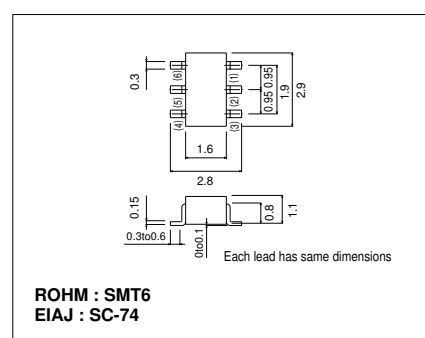
1) Both the DTA144T chip and DTC144T chip in a SMT package.

### ●Absolute maximum ratings (Ta = 25°C)

Parameter	Symbol	Limits	Unit
Collector-base voltage	V <sub>CB0</sub>	50	V
Collector-emitter voltage	V <sub>CE0</sub>	50	V
Emitter-base voltage	V <sub>EB0</sub>	5	V
Collector current	I <sub>c</sub>	100	mA
Collector power dissipation	P <sub>c</sub>	300(TOTAL)	mW *
Storage temperature	T <sub>stg</sub>	-55~+150	°C

\* 200mW per element must not be exceeded. PNP type negative symbols have been omitted.

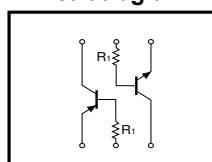
### ●External dimensions (Units : mm)



### ●Package, marking, and packaging specifications

Type	IMD8A
Package	SMT6
Marking	D8
Code	T108
Basic ordering unit (pieces)	3000

### ●Circuit diagram



### ●Electrical characteristics (Ta = 25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Collector-base breakdown voltage	BV <sub>CB0</sub>	50	-	-	V	I <sub>c</sub> = 50μA
Collector-emitter breakdown voltage	BV <sub>CE0</sub>	50	-	-	V	I <sub>c</sub> = 1mA
Emitter-base breakdown voltage	BV <sub>EB0</sub>	50	-	-	V	I <sub>e</sub> = 50μA
Collector cutoff current	I <sub>cBO</sub>	-	-	0.5	μA	V <sub>CB</sub> = 50V
Emitter cutoff current	I <sub>eBO</sub>	-	-	0.5	μA	V <sub>EB</sub> = 4V
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	-	-	0.3	V	I <sub>c</sub> = 5mA , I <sub>B</sub> = 0.5mA
DC current transfer ratio	h <sub>FE</sub>	100	250	600	-	V <sub>CE</sub> = 5V , I <sub>c</sub> = 1mA
Input resistance	R <sub>i</sub>	32.9	47	61.1	kΩ	-

PNP type negative symbols have been omitted.