

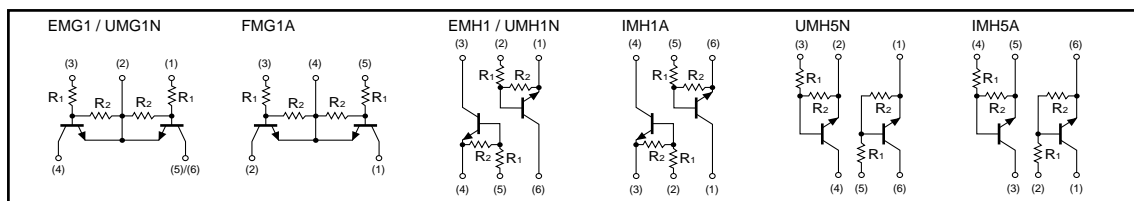
# General purpose (dual digital transistors)

## EMG1 / EMH1 / UMG1N / UMH1N / UMH5N / FMG1A / IMH1A / IMH5A

### ●Features

- 1) Two DTC124E chips in a EMT or UMT or SMT package.

### ●Circuit schematic



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

Parameter		Symbol	Limits	Unit
Supply voltage		V <sub>CC</sub>	50	V
Input voltage		V <sub>IN</sub>	40 -10	V
Output current		I <sub>O</sub>	30	mA
Power dissipation	EMG1 / EMH1 / UMG1N / UMH1N / UMG5N	Pd	150(TOTAL)	mW *1
	FMG1A / IMH1A / IMH5A		300(TOTAL)	
Junction temperature		T <sub>j</sub>	150	°C
Storage temperature		T <sub>stg</sub>	-55~+150	°C

\*1 120mW per element must not be exceeded.  
 \*2 200mW per element must not be exceeded.

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

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Input voltage	V <sub>I (off)</sub>	-	-	0.5	V	V <sub>CC</sub> =5V, I <sub>O</sub> =100μA
	V <sub>I (on)</sub>	3	-	-		V <sub>O</sub> =0.2V, I <sub>O</sub> =5mA
Output voltage	V <sub>O (on)</sub>	-	0.1	0.3	V	I <sub>O</sub> =10mA, I <sub>I</sub> =0.5mA
Input current	I <sub>I</sub>	-	-	0.36	mA	V <sub>I</sub> =5V
Output current	I <sub>O (off)</sub>	-	-	0.5	μA	V <sub>CC</sub> =50V, V <sub>I</sub> =0V
DC current gain	G <sub>I</sub>	56	-	-	-	V <sub>O</sub> =5V, I <sub>O</sub> =5mA
Input resistance	R <sub>1</sub>	15.4	22	28.6	kΩ	-
Resistance ratio	R <sub>2</sub> / R <sub>1</sub>	0.8	1	1.2	-	-

### ●Package, marking, and packaging specifications

Type	EMG1	EMH1	UMG1N	UMH1N	UMH5N	FMG1A	IMH1A	IMH5A
Package	EMT5	EMT5	UMT5	UMT6	UMT6	SMT5	SMT6	SMT6
Marking	G1	H1	G1	H1	H5	G1	H1	H5
Code	T2R	T2R	TR	TN	TR	T148	T110	T110
Basic ordering unit (pieces)	8000	8000	3000	3000	3000	3000	3000	3000

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## Transistors

### External dimensions (Units : mm)

