

# General purpose (dual digital transistors)

# EMG6 / UMG6N / FMG6A

### Features

1) Two DTC144T chips in a EMT or UMT or SMT package.

## •Equivalent circuit



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

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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	EMG6 / UMG6N	Pc	150(TOTAL)	mW		
	FMG6A		300(TOTAL)			
Junction temperature		Tj	150	°C		
Storage temperature		Tstg	-55 to +150	°C		

#### •Package, marking, and packaging specifications

Туре	EMG6	UMG6N	FMG6A
Package	EMT5	UMT5	SMT5
Marking	G6	G6	G6
Code	T2R	TR	T148
Basic ordering unit (pieces)	8000	3000	3000

# •Dimensions (Unit : mm) EMG6 0.22 0.13 ROHM : EMT5 Each lead has same dimensions UMG6N 1.25 2. 0.1 6 0.1<sup>M</sup>i ROHM : UMT5 EIAJ : SC-88A Each lead has same dimensions FMG6A 0.3 1.6 0.8 0.3Mi ROHM : SMT5 EIAJ : SC-74A Each lead has same dimensions

# EMG6 / UMG6N / FMG6A

# Data Sheet

### •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	ВVево	5	-	-	V	Ιε=50μA
Collector cutoff current	Ісво	-	-	0.5	μA	Vcb=50V
Emitter cutoff current	Іево	-	-	0.5	μA	Veb=4V
Collector-emitter saturation voltage	Vce(sat)	-	-	0.3	V	Ic/IB=10mA/1mA
DC current transfer ratio	hfe	100	250	600	-	Vce/lc=5V/1mA
Transition frequency	fт	-	250	-	MHz	Vce=10V, Ie= -5mA, f=100MHz *
Input resistance	R1	32.9	47	61.1	kΩ	-

\*Transition frequency of the device.

## •Electrical characteristics curves





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