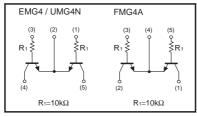
# General purpose (dual digital transistors) EMG4/UMG4N/FMG4A

#### Features

1) Two DTC114T chips in a EMT or UMT or SMT package.

#### Equivalent circuits



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

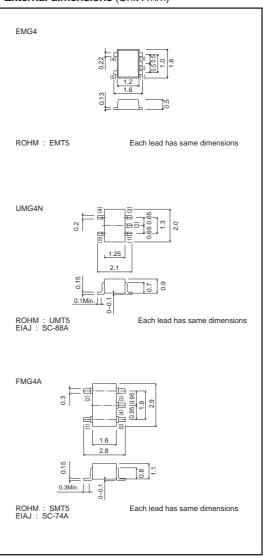
Туре	EMG4	UMG4N	FMG4A	
Package	EMT5	UMT5	SMT5	
Marking	G4	G4	G4	
Code	T2R	TR	T148	
Basic ordering unit (pieces)	8000	3000	3000	

#### •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
Power dissipation	EMG4 / UMG4N	Pd	150(TOTAL)	mW *1
	FMG4A	- ru	300(TOTAL)	*2
Junction temperature		Tj	150	°C
Storage temperature		Tstg	-55 to +150	°C

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

#### •External dimensions (Unit : mm)

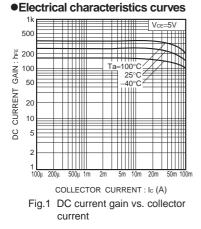


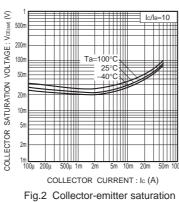
### Transistors

#### •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=50μΑ
Collector cutoff current	Ісво	-	-	0.5	μΑ	Vcb=50V
Emitter cutoff current	Іево	-	-	0.5	μΑ	VEB=4V
Collector-emitter saturation voltage	VCE(sat)	-	-	0.3	V	Ic/IB=10mA/1mA
DC current transfer ratio	hfe	100	250	600	-	Vce=5V, Ic=1mA
Transition frequency	fτ	-	250	-	MHz	Vce=10V, Ie=-5mA, f=100MHz *
Input resistance	R1	7	10	13	kΩ	-

\*Transition frequency of the device.





voltage vs. collector current

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