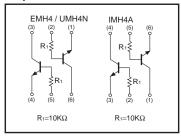
# General purpose (dual digital transistors) EMH4/UMH4N/IMH4A

### Features

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

# Equivalent circuits



# Package, marking, and packaging specifications

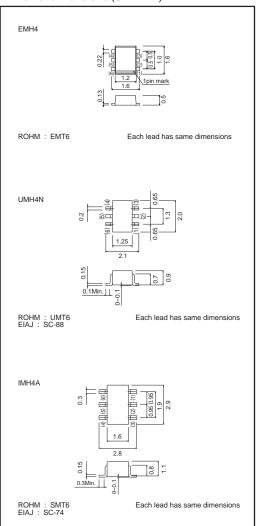
Туре	EMH4	UMH4N	IMH4A
Package	EMT5	UMT6	SMT6
Marking	H4	H4	H4
Code	T2R	TN	T110
Basic ordering unit (pieces)	8000	3000	3000

# ● 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	EMH4 / UMH4N	Pd	150(TOTAL)	mW *1 *2	
	IMH4A		300(TOTAL)		
Junction temperature		Tj	150	°C	
Storage temperature		Tstg	-55 to +150	°C	

<sup>\*1 120</sup>mW per element must not be exceeded.

### ●External dimensions (Unit: mm)

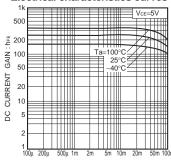


# ●Electrical characteristics (Ta=25°C)

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/I <sub>B</sub> =10mA/1mA
DC current transfer ratio	hfE	100	250	600	-	VcE=5V, Ic=1mA
Transition frequency	f⊤	-	250	-	MHz	VcE=10V, IE=-5mA, f=100MHz *
Input resistance	R <sub>1</sub>	7	10	13	kΩ	_

<sup>\*</sup>Transition frequency of the device.

### •Electrical characteristics curves



COLLECTOR CURRENT: lc (A)
Fig.1 DC current gain vs. collector

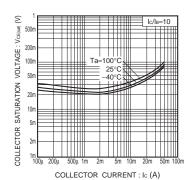


Fig.2 Collector-emitter saturation voltage vs. collector current

Rev.A

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