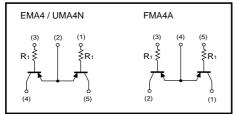
General purpose (dual digital transistors) EMA4/UMA4N/FMA4A

Feature

1) Two DTA114T chips in a EMT or UMT or SMT package.

Equivalent circuits



•Package, marking, and packaging specifications

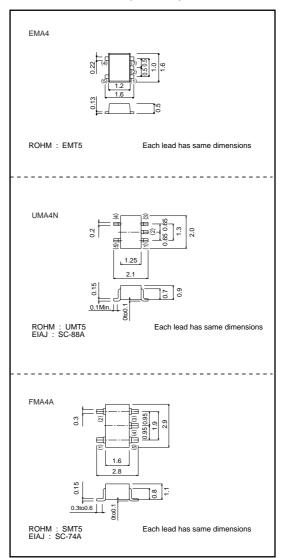
Туре	EMA4	UMA4N	FMA4A
Package	EMT5	UMT5	SMT5
Marking	A4	A4	A4
Code	T2R	TR	T148
Basic ordering unit (pieces)	8000	3000	3000

Absolute maximum ratings (Ta=25°C)

3 3 3 3 3 3 3 3 3 3								
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	EMA4 / UMA4N	Pd	150(TOTAL)	mW *1				
	FMA4A	, iu	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)

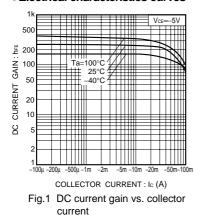


Transistors

•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	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=-5V, Ic=-1mA
Transition frequency	f⊤	-	250	-	MHz	Vce=-10V, Ie=5mA, f=100MHz *
Input resistance	R1	7	10	13	kΩ	-

*Transition frequency of the device.



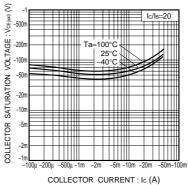


Fig.2 Collector-emitter saturation voltage vs. collector current

•Electrical characteristics curves

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