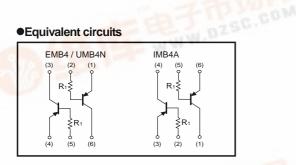
EMB4 / UMB4N / IMB4A

Transistors

General purpose (dual digital transistors) EMB4 / UMB4N / IMB4A

Feature

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



•Package, marking, and packaging specifications

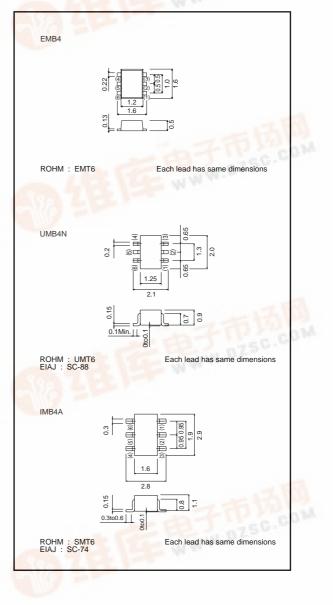
		-	and the second second	
Туре	EMB4	UMB4N	IMB4A	
Package	EMT6	UMT6	SMT6 B4	
Marking	B4	B4		
Code	T2R	TN	T110	
Basic ordering unit (pieces)	8000	3000	3000	

•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	EMB4 / UMB4N	Pd	150(TOTAL)	mW *1 *2	
	IMB4A		300(TOTAL)		
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.









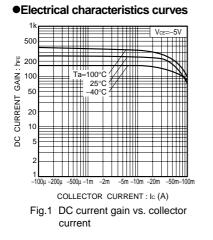
EMB4 / UMB4N / IMB4A

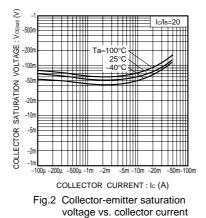
Transistors

•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	Iε=-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=-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.





Appendix

Notes

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