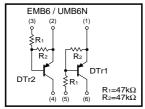
General purpose (dual digital transistors) EMB6 / UMB6N

● Feature

1) Two DTA144E chips in a EMT or UMT package.

●Equivalent circuit



● Package, marking, and packaging specifications

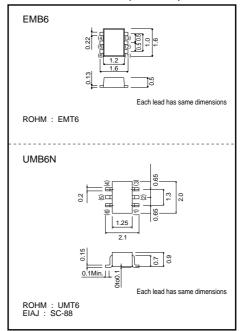
Туре	EMB6	UMB6N	
Package	EMT6	UMT6	
Marking	B6	B6	
Code	T2R	TR	
Basic ordering unit (pieces)	8000	3000	

● Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit	
Supply voltage	Vcc	- 50	V	
Input voltage	Vin	-40	V	
	VIN	10	1 v	
Output current	lo	30	mA	
Power dissipation	Pd	150(TOTAL)	mW *1	
Junction temperature	Tj	150	°C	
Storage temperature	Tstg	−55~+150	°C	

^{*1 120}mW per element must not be exceeded.

●External dimensions (Unit:mm)



●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Input voltage	VI (off)	-	-	-0.5	٧	Vcc=-5V, Io=-100μA
	VI (on)	-3.0	-	-		Vo=-0.3V, Io=-2mA
Output voltage	Vo (on)	-	-0.1	-0.3	V	lo=−10mA, l=−0.5mA
Input current	lı	-	-	-0.18	mA	V≔-5V
Output current	IO (off)	-	-	-0.5	μΑ	Vcc=-50V, Vi=0V
DC current gain	Gı	68	_	-	-	Io=-5mA, Vo=-5V
Input resistance	R ₁	32.9	47	61.1	kΩ	-
Resistance ratio	R2/R1	0.8	1.0	1.2	-	-
Transition frequency	f⊤	-	250	-	MHz	Vce=-10V, Ie=5mA, f=100MHz *

^{*}Transition frequency of the device.

•Electrical characteristics curve

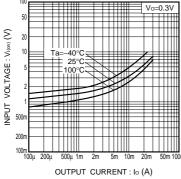


Fig.1 Input voltage vs. output current (ON characteristics)

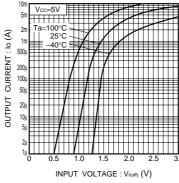


Fig.2 Output current vs. input voltage (OFF characteristics)

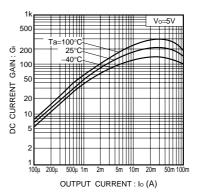


Fig.3 DC current gain vs. output

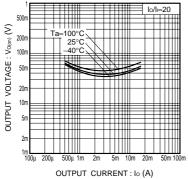


Fig.4 Output voltage vs. output

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