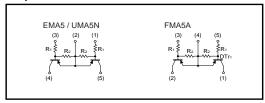
Emitter common (dual digital transistors) EMA5 / UMA5N / FMA5A

Features

1) Two DTA123Js in a EMT or UMT or SMT package.

●Equivalent circuit



Packaging, marking, and packaging specifications

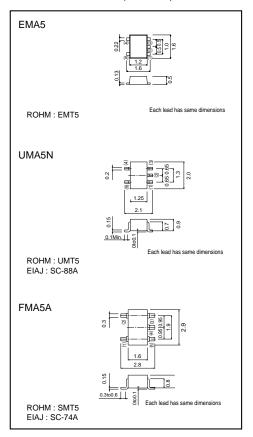
Туре	EMA5	UMA5N	FMA5A
Package	EMT5	UMT5	SMT5
Marking	A5	A5	A5
Code	T2R	TR	T148
Basic ordering unit (pieces)	8000	3000	3000

● Absolute maximum ratings (Ta=25°C)

Supply voltag Vcc -50 V Input voltage Vin -12 V Output current Io -100 mA Power dissipation EMA5 / UMA5N FMA5A Pd 150 (TOTAL) 300 (TOTAL) mW * Junction temperature Tj 150 *C *C	Parameter		Symbol	Limits	Unit	
Input voltage	Supply voltag		Vcc	-50	V	
Output current Io -100 mA Power dissipation EMA5 / UMA5N FMA5A Pd 150 (TOTAL) 300 (TOTAL) mW * Junction temperature Tj 150 °C	Input voltage		V	-12	V	
Power dissipation EMA5 / UMA5N FMA5A Pd 150 (TOTAL) 300 (TOTAL) mW * Junction temperature Tj 150 °C			VIN	5		
dissipation FMA5A Pd 300 (TOTAL) mW * Junction temperature Tj 150 °C	Output current		lo	-100	mA	
Junction temperature Tj 150 °C	Power	EMA5 / UMA5N	Dd	150 (TOTAL)	m\\\ 4	
direction temperature 11 100 0	dissipation	FMA5A	Fu	300 (TOTAL)	IIIVV A	
0	Junction temperature		Tj	150	°C	
Storage temperature 1stg -55 to +150 C	Storage temperature		Tstg	-55 to +150	°C	

Do not exceed 120m per element for the UMA5N. Do not exceed 200mW per element for the FMA5A.

●External dimensions (Unit : mm)



●Electrical characteristics (Ta=25°C)

	0	1.45	T	N.4	1.1-26	0 1141	
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions	
Input voltage	VI (off)	-	-	-0.5	V	Vcc= -5V, Io= -100μA	
	VI (on)	-1.1	-	-	v	Vo= -0.3V, Io= -5mA	
Output voltage	Vo (on)	-	-0.1	-0.3	V	Io/I:= -5mA/ -0.25mA	
Input current	lı .	-	-	-3.6	mA	V _I = −5V	
Output current	lo (off)	-	-	-0.5	μΑ	Vcc= -50V, Vi=0V	
DC current gain	Gı	80	-	-	-	Vo= -5V, Io= -10mA	
Input resistance	R ₁	1.54	2.2	2.86	kΩ	-	
Transition frequency	f⊤	-	250	-	MHz	Vce= -10V, Ie=5mA, f=100MHz *	
Resistance ratio	R ₂ / R ₁	17	21	26	_	_	

^{*}Transition frequency of the device.

Rev.A

•Electrical characteristics curves

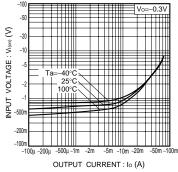


Fig.1 Input voltage vs. output current (ON characteristics)

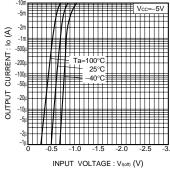


Fig.2 Output current vs. input voltage (OFF characteristics)

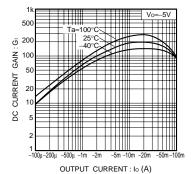


Fig.3 DC current gain vs. output current

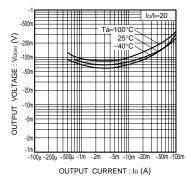


Fig.4 Output voltage vs. output current

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