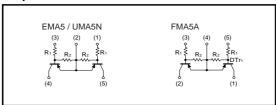
# Emitter common (dual digital transistors) EMA5 / UMA5N / FMA5A

### Features

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

# ●Equivalent circuit



# Packaging, marking, and packaging specifications

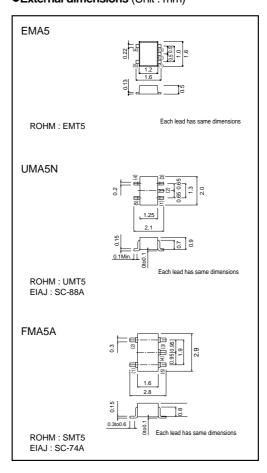
Туре	EMA5	UMA5N	FMA5A	
Package	EMT5	UMT5	SMT5	
Marking	A5	A5	A5	
Code	T2R	TR	T148	
Basic ordering unit (pieces)	8000	3000	3000	

## ● Absolute maximum ratings (Ta=25°C)

ameter	Symbol	Limits	Unit	
Supply voltag		-50	V	
Input voltage		-12	V	
		5		
	lo	-100	mA	
EMA5 / UMA5N	Pd	150 (TOTAL)	mW *	
FMA5A		300 (TOTAL)		
Junction temperature		150	°C	
Storage temperature		-55 to +150	°C	
	FMA5A rature	Vcc   Vin   Io     EMA5 / UMA5N   Pd   FMA5A   rature   Tj	Vcc   -50	

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)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions	
Input voltage	VI (off)	-	-	-0.5	V	Vcc= -5V, Io= -100μA	
	VI (on)	-1.1	-	-		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	V₁= -5V	
Output current	IO (off)	-	-	-0.5	μΑ	Vcc= -50V, Vi=0V	
DC current gain	Gı	80	-	-	-	Vo= -5V, Io= -10mA	
Input resistance	R <sub>1</sub>	1.54	2.2	2.86	kΩ	-	
Transition frequency	fτ	-	250	-	MHz	Vc== -10V, Ie=5mA, f=100MHz *	
Resistance ratio	R <sub>2</sub> / R <sub>1</sub>	17	21	26	_	_	

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

# •Electrical characteristics curves

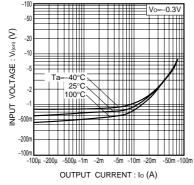


Fig.1 Input voltage vs. output current (ON characteristics)

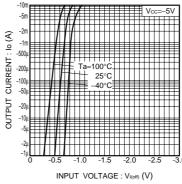


Fig.2 Output current vs. input voltage (OFF characteristics)

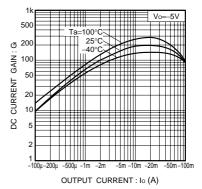


Fig.3 DC current gain vs. output current

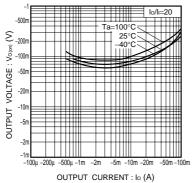


Fig.4 Output voltage vs. output current

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