

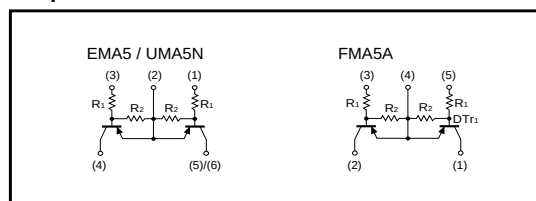
Emitter common (dual digital transistors)

EMA5 / UMA5N / FMA5A

●Features

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

●Equivalent circuit



●Packaging, marking, and packaging specifications

Type	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)

Parameter	Symbol	Limits	Unit
Supply voltage	V _{CC}	-50	V
Input voltage	V _{IN}	-12 5	V
Output current	I _O	-100	mA
Power dissipation	P _d	150 (TOTAL) 300 (TOTAL)	mW *
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-55~+150	°C

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

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Input voltage	V _I (off)	—	—	-0.5	V	V _{CC} =-5V, I _O =-100μA
	V _I (on)	-1.1	—	—	V	V _O =-0.3V, I _O =-5mA
Output voltage	V _O (on)	—	-0.1	-0.3	V	I _O /I _I =-5mA/0.25mA
Input current	I _I	—	—	-3.6	mA	V _I =-5V
Output current	I _O (off)	—	—	-0.5	μA	V _{CC} =-50V, V _I =0V
DC current gain	G _I	80	—	—	—	V _O =-5V, I _O =-10mA
Input resistance	R ₁	1.54	2.2	2.86	kΩ	—
Transition frequency	f _T	—	250	—	MHz	V _{CE} =-10V, I _E =5mA, f=100MHz
Resistance ratio	R ₂ / R ₁	17	21	26	—	—

*Transition frequency of the device.

●External dimensions (Units : mm)

