

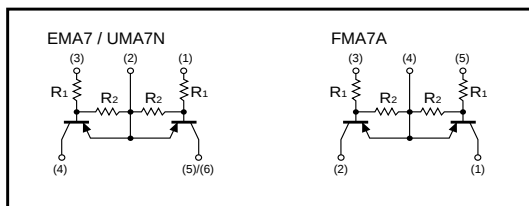
Emitter common (dual digital transistors)

EMA7 / UMA7N / FMA7A

●Features

- 1) Two DTA143X chips in a EMT or UMT or SMT package.

●Equivalent circuit



●Package, marking, and packaging specifications

Type	EMA7	UMA7N	FMA7A
Package	EMT5	UMT5	SMT5
Marking	A7	A7	A7
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}	−20 7	V
Output current	I _O	−100	mA
Power dissipation	P _d	150(TOTAL) 300(TOTAL)	mW *1 *2
Junction temperature	T _J	150	°C
Storage temperature	T _{stg}	−55~+150	°C

*1 120mW per element must not be exceeded.

*2 200mW per element must not be exceeded.

●Electrical characteristics (Ta = 25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Input voltage	V _{I (off)}	−	−	−0.3	V	V _{CC} =−5V, I _O =−100μA
	V _{I (on)}	−2.5	−	−		V _O =−0.3V, I _O =−20mA
Output voltage	V _{O (on)}	−	−0.1	−0.3	V	I _O /I _I =−10mA/−0.5mA
Input current	I _I	−	−	−1.8	mA	V _I =−5V
Output current	I _{O (off)}	−	−	−0.5	μA	V _{CC} =−50V, V _I =0V
DC current gain	G _i	30	−	−	−	V _O =−5V, I _O =−10mA
Transition frequency	f _T	−	250	−	MHz	V _{CE} =−10V, I _E =5mA, f=100MHz *
Input resistance	R _i	3.29	4.7	6.11	kΩ	−
Resistance ratio	R ₂ /R ₁	1.7	2.1	2.6	−	−

*Transition frequency of the device.

●External dimensions (Units : mm)

