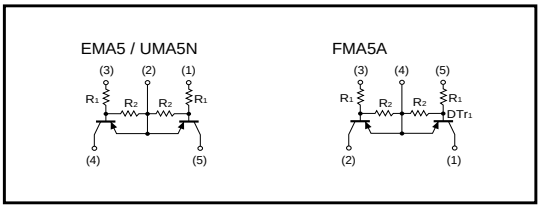
Emitter common (dual digital transistors)

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

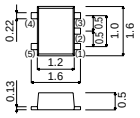
●Absolute maximum ratings (Ta=25°C)

Parameter		Symbol	Limits	Unit
Supply voltag		V_{CC}	−50	V
Input voltage		V_{IN}	−12	V
			5	
Output current		I_O	−100	mA
Power dissipation	EMA5 / UMA5N	Pd	150 (TOTAL)	mW ✻
	FMA5A		300 (TOTAL)	
Junction temperature		Tj	150	˚C
Storage temperature		Tstg	−55~+150	˚C

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

●External dimensions (Units : mm)

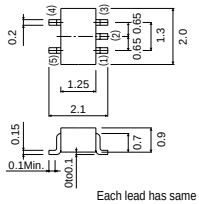
EMA5



Each lead has same dimensions

ROHM : EMT5

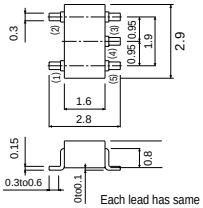
UMA5N



Each lead has same dimensions

ROHM : UMT5
EIAJ : SC-88A

FMA5A



Each lead has same dimensions

ROHM : SMT5
EIAJ : SC-74A

●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_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.