

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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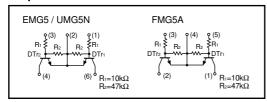
Emitter common (dual digital transistors)

EMG5 / UMG5N / FMG5A

Features

1) Two DTC114Y chips in a EMT or UMT or SMT

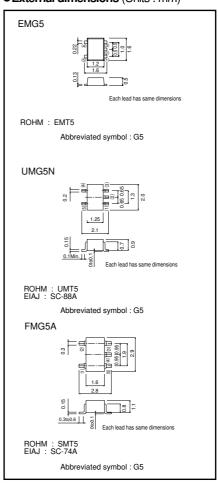
Equivalent circuit



● Absolute maximum ratings (Ta = 25°C)

		_ `	,		
Parameter		Symbol	Limits	Unit	
Supply voltage		Vcc	50	V	
Input voltage		VIN	40	V	
		VIN	-6		
Output current		lo	100	A	
		Ic (Max.) 100		mA	
Power dissipation	EMG5, UMG5N	Pd	150 (TOTAL)	mW *1	
	FMG5A	Fu	300 (TOTAL)	*2	
Junction temperature		Tj	150	°C	
Storage temperature		Tstg	-55~+150	°C	

●External dimensions (Units : mm)



^{*1 120}mW per element must not be exceeded. *2 200mW per element must not be exceeded.

● Electrical characteristics (Ta = 25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions	
Input voltage	V _{I (off)}	-	_	0.3	V	Vcc=5V, Io=100μA	
input voitage	VI (on)	1.4	_	_	V	Vo=0.3V, Io=1mA	
Output voltage	Vo (on)	-	0.1	0.3	٧	lo=5mA, l≔0.25mA	
Input current	lı	-	_	0.88	mA	V _I =5V	
Output current	lo (off)	-	_	0.5	μΑ	Vcc=50V, Vi=0V	
DC current gain	Gı	68	_	_	_	Vo=5V, Io=5mA	
Transition frequency	f⊤	-	250	-	MHz	Vc==-10V, I==5mA, f=100MHz *	
Input resistance	R ₁	7	10	13	kΩ	_	
Resistance ratio	R ₂ /R ₁	3.7	4.7	5.7	_	-	

^{*} Transition frequency of the device

Packaging specifications

	Package	Taping				
	Code	T2R	TR	T148		
Туре	Basic ordering unit (pieces)	8000	3000	3000		
EMG5		0	_	_		
UMG5N		_	0	_		
FMG5A		_	_	0		