mail

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!



Contact us

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Transistors

Power management (dual digital transistors) UMC3N / FMC3A

Features

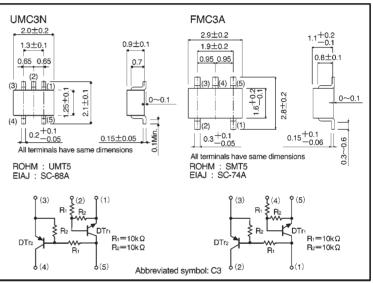
- Both the DTA114E chip and DTC114E chip in a UMT or SMT package.
- 2) Ideal for power switch circuits.
- Mounting cost and area can be cut in half.

Structure

Epitaxial planar type NPN/PNP silicon transistor (Built-in resistor type)

The following characteristics apply to both DTr_1 and DTr_2 , however, the "-" sign on DTr_2 values for the PNP type have been omitted.





•Absolute maximum ratings (Ta = 25° C)

Parameter		Symbol	Limits	Unit	
Supply voltage		Vcc	50	V	
Input voltage			40		
		Vin	-10	V	
Output current		lo	50		
		IC (Max.)	100	mA	
Power dissipation	UMC3N	Dd	150(TOTAL)	*1	
	FMC3A	Pd	300(TOTAL)	- mW *2	
Junction temperature		Tj	150	ΰ	
Storage temperature		Tstg	-55~+150	Ĵ	

*1 120mW per element must not be exceeded.

*2 200mW per element must not be exceeded.

•Electrical characteristics (Ta = 25° C)

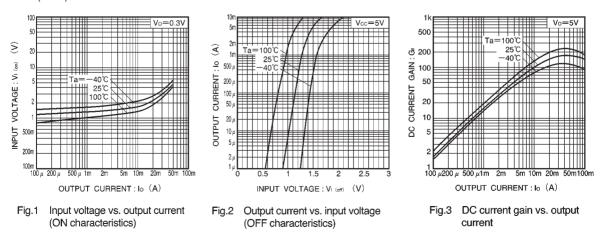
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions	
Input voltogo		_	-	0.5	v	Vcc=5V, lo=100 μ A	
Input voltage	VI (on)	3	-	_		Vo=0.3V, lo=10mA	
Output voltage	Vo(on)	—	0.1	0.3	V	l₀=10mA, lı=0.5mA	
Input current	h	—	-	0.88	mA	V1=5V	
Output current	IO (off)	_	-	0.5	μA	Vcc=50V, Vi=0V	
DC current gain	Gi	30	-	_	_	Vo=5V, Io=5mA	
Transition frequency	fт	_	250	_	MHz	Vce=10mA, le=-5mA, f=100MHz*	
Input resistance	Rı	7	10	13	kΩ	_	
Resistance ratio	R2/R1	0.8	1	1.2	_		

* Transition frequency of the device

Packaging specifications

	Packaging type	Taping	
	Code	TR	T148
Part No.	Basic ordering unit (pieces)	3000	3000
UMC3N		0	—
FMC3A		—	0

Electrical characteristic curves DTr1 (NPN)





Transistors

-3.0

