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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Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

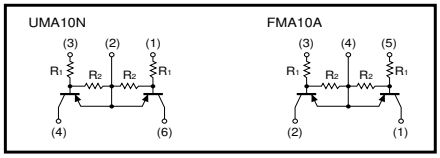
General purpose (dual digital transistors)

UMA10N / FMA10A

●Features

1) Two DTA113Z chips in a UMT package.

●Equivalent circuits



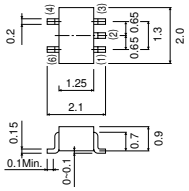
●Absolute maximum ratings (Ta=25°C)

Parameter		Symbol	Limits	Unit
Supply voltage		V_{CC}	−50	V
Input voltage		V_{IN}	−10	V
			5	
Output current		I_O	−100	mA
Power dissipation	UMA10N	Pd	150(TOTAL)	mW ∗1
	FMA10A		300(TOTAL)	∗2
Junction temperature		Tj	150	°C
Storage temperature		Tstg	−50~+150	°C

∗1 120mW per element must not be exceeded.
∗2 200mW per element must not be exceeded.

●External dimensions (Units : mm)

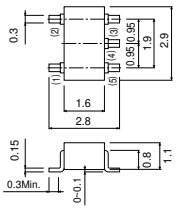
UMA10N



ROHM : UMT5
EIAJ : SC-88A
JEDEC : SOT-353

Each lead has same dimensions

FMA10A



ROHM : SMT5
EIAJ : SC-74A

Each lead has same dimensions

●Package, marking, and packaging specifications

Part No.	UMA10N	FMA10A
Package	UMT5	SMT5
Marking	A10	A10
Code	TR	T148
Basic ordering unit (pieces)	3000	3000

●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
	$V_{I(on)}$	−3.0	–	–		V_O=−0.3V , I_O=−20mA
Output voltage	$V_{O(on)}$	–	−0.1	−0.3	V	I_O/I_C=−10mA/−0.5mA
Input current	I_I	–	–	−7.2	mA	V_I=−5V
Output current	$I_{O(off)}$	–	–	−0.5	μA	V_{CC}=−50V , V_I=0V
DC current gain	G_I	33	–	–	–	V_O=−5V , I_O=−5mA
Input resistance	R_1	0.7	1.0	1.3	kΩ	–
Resistance ratio	R_2/R_1	8	10	12	–	–
Transition frequency	f_T	–	250	–	MHz	V_{CC}=−10V , I_E=5mA, f=100MHz ∗

∗ Transition frequency of the device.