Transistors

General purpose (dual digital transistors)

UMA10N / FMA10A

●**Features**

1) Two DTA113Z chips in a UMT package.

●**Equivalent circuits**
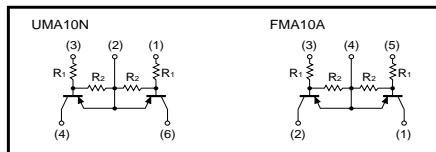
●**Absolute maximum ratings** (Ta=25°C)

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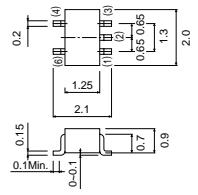
ROHM : UMT5
EIAJ : SC-88A
JEDEC : SOT-353

Each lead has same dimensions

FMA10A
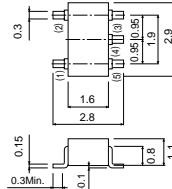
ROHM : SMT5
EIAJ : SC-74A

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.

ROHM

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RN1607(TE85L,F) DTA124GKAT146 DTA144WETL DTA144WKAT146 DTC113EET1G DTC115TKAT146 DTC144ECA-TP
DTC144VUAT106 MUN5241T1G BCR158WH6327XTSA1 NSBA114TDP6T5G NSBA143ZF3T5G NSBC114YF3T5G NSBC123TF3T5G
SMUN5235T1G SMUN5330DW1T1G SSVMUN5312DW1T2G RN1303(TE85L,F) RN4605(TE85L,F) TTEPROTOTYPE79
DDTC114EUAQ-7-F EMH15T2R SMUN2214T3G NSBC114TF3T5G NSBC143ZPDP6T5G NSVMUN5113DW1T3G
SMUN5230DW1T1G SMUN5133T1G SMUN2214T1G DTC114EUA-TP NSBA144EF3T5G NSVDTA114EET1G 2SC2223-T1B-A
2SC3912-TB-E SMUN5237DW1T1G SMUN5213DW1T1G SMUN5114DW1T1G SMUN2111T1G NSVDTC144EM3T5G DTC124ECA-
TP DTC123TM3T5G DTA114ECA-TP DTA113EM3T5G DCX115EK-7-F DTC113EM3T5G NSVMUN5135DW1T1G
NSVMUN2237T1G NSVDTC143ZM3T5G SMUN5335DW1T2G SMUN5216DW1T1G