

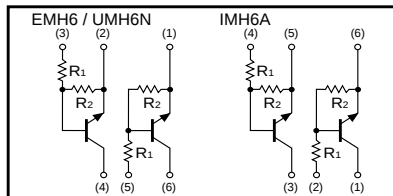
General purpose (dual digital transistors)

EMH6 / UMH6N / IMH6A

●Features

- 1) Two DTC144E chips in a EMT or UMT or SMT package.

●Equivalent circuit



●Package, marking, and packaging specifications

Type	EMH6	UMH6N	IMH6A
Package	EMT6	UMT6	SMT6
Marking	H6	H6	H6
Code	T2R	TR	T108
Basic ordering unit (pieces)	8000	3000	3000

●Absolute maximum ratings (Ta = 25°C)

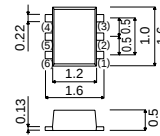
Parameter	Symbol	Limits	Unit
Supply voltage	V _{CC}	50	V
Input voltage	V _{IN}	40 -10	V
Output current	I _O	30	mA
Power dissipation	P _d	150(TOTAL) 300(TOTAL)	mW *1 *2
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-55~+150	°C

*1 120mW per element must not be exceeded.

*2 200mW per element must not be exceeded.

●External dimensions (Units : mm)

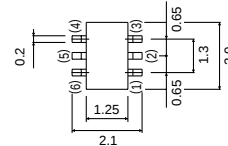
EMH6



ROHM : EMT6

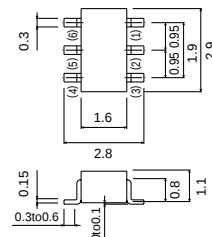
Each lead has same dimensions

UMH6N

ROHM : UMT6
EIAJ : SC-88

Each lead has same dimensions

IMH6A

ROHM : SMT6
EIAJ : SC-74

Each lead has same dimensions

●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)	3	—	—	V	V _O =0.3V, I _O =2mA
Output voltage	V _O (on)	—	0.1	0.3	V	I _O /I _I =10mA/0.5mA
Input current	I _I	—	—	0.18	mA	V _I =5V
Output current	I _O (off)	—	—	0.5	μA	V _{CC} =50V, V _I =0V
DC current gain	G _I	68	—	—	—	I _O /V _O =5mA/5V
Input resistance	R _I	32.9	47	61.1	kΩ	—
Resistance ratio	R ₂ / R ₁	0.8	1	1.2	—	—
Transition frequency	f _T	—	250	—	MHz	V _{CE} =10V, I _E =-5mA, f=100MHz *

*Transition frequency of the device.

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