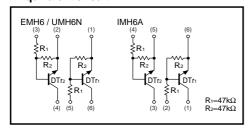
General purpose (dual digital transistors) EMH6 / UMH6N / IMH6A

Features

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

●Equivalent circuit



•Package, marking, and packaging specifications

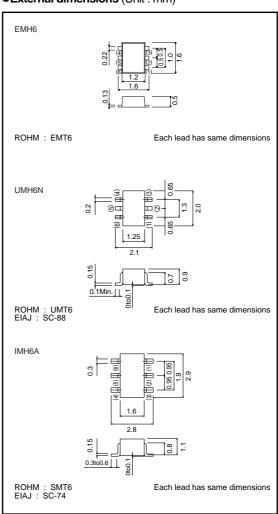
Туре	EMH6	UMH6N	IMH6A
Package	EMT6	UMT6	SMT6
Marking	H6	H6	H6
Code	T2R	TR	T108
Basic ordering unit (pieces)	8000	3000	3000

● Absolute maximum ratings (Ta = 25°C)

		_			
Parameter		Symbol	Limits	Unit	
Supply voltage		Vcc	50	V	
Input voltage		Vin	40	V	
		VIN	-10		
Output current		lo	30	mA	
COLLECTOR CURRENT		IC(MAX)	100	mA	
Power dissipation	EMH6 / UMH6N	Pd	150(TOTAL)	mW *1 *2	
	IMH6A	1 "	300(TOTAL)		
Junction temperature		Tj	150	°C	
Storage temperature		Tstg	-55 to +150	°C	

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

●External dimensions (Unit:mm)



●Electrical characteristics (Ta = 25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Input voltage	VI (off)	-	-	0.5	.,	Vcc=5V, Io=100μA
	VI (on)	3	-	-	V	Vo=0.3V, Io=2mA
Output voltage	Vo (on)	-	0.1	0.3	V	Io/I=10mA/0.5mA
Input current	lı	-	-	0.18	mA	Vi=5V
Output current	IO (off)	-	-	0.5	μΑ	Vcc=50V, Vi=0V
DC current gain	Gı	68	-	_	-	Io/Vo=5mA/5V
Input resistance	R ₁	32.9	47	61.1	kΩ	-
Resistance ratio	R2/R1	0.8	1	1.2	-	-
Transition frequency	f⊤	-	250	-	MHz	Vce=10V, Ie=-5mA, f=100MHz *

^{*}Transition frequency of the device.

•Electrical characteristics curves

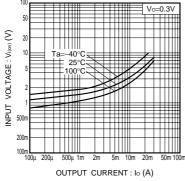


Fig.1 Input voltage vs. output current (ON characteristics)

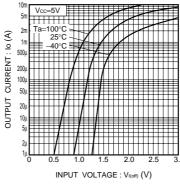


Fig.2 Output current vs. input voltage (OFF characteristics)

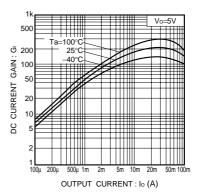


Fig.3 DC current gain vs. output current

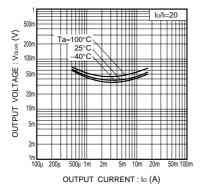


Fig.4 Output voltage vs. output current

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