

General purpose (dual digital transistors)

UMH7N

●Feature

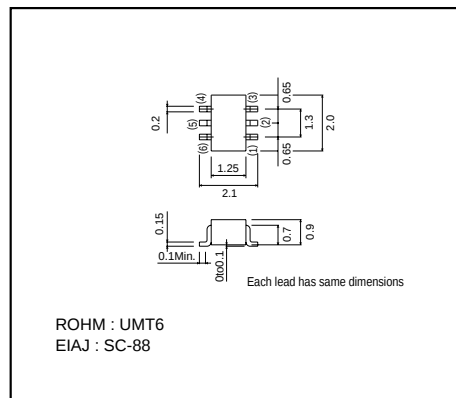
- 1) Includes two DTC143T transistors in a single UMT package.

●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Collector-base voltage	V_{CB0}	50	V
Collector-emitter voltage	V_{CE0}	50	V
Emitter-base voltage	V_{EB0}	5	V
Collector current	I_C	100	mA
Collector power dissipation	P_C	150 (TOTAL)	mW *1
Junction temperature	T_J	150	°C
Storage temperature	T_{stg}	-55~+150	°C

*1 120mW per element must not be exceeded.

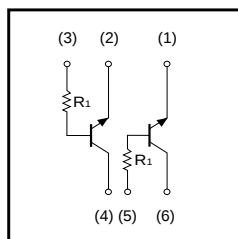
●External dimensions (Units : mm)



●Package, marking, and Packaging specifications

Part No.	UMH7N
Package	UMT6
Marking	H7
Code	TR
Basic ordering unit (pieces)	3000

●Equivalent circuit



●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Collector-base breakdown voltage	BV_{CB0}	50	—	—	V	$I_C=50\mu A$
Collector-emitter breakdown voltage	BV_{CE0}	50	—	—	V	$I_C=1mA$
Emitter-base breakdown voltage	BV_{EB0}	5	—	—	V	$I_E=50\mu A$
Collector cutoff current	I_{CB0}	—	—	0.5	μA	$V_{CB}=50V$
Emitter cutoff current	I_{EB0}	—	—	0.5	μA	$V_{EB}=4V$
DC current transfer ratio	h_{FE}	100	250	600	—	$V_{CE}/I_C=5V/1mA$
Collector-emitter saturation voltage	$V_{CE(sat)}$	—	—	0.3	V	$I_C/I_E=5mA/0.25mA$
Input resistance	R_1	3.29	4.7	6.11	k Ω	—