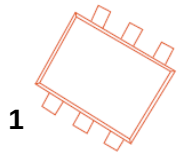
Digital transistors (built-in resistors)

EMH10 General purpose transistors (dual transistors)

SOT-563

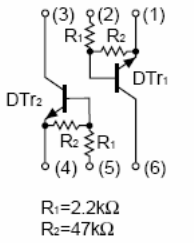


FEATURES

- Two DTC123J chips in a package.
- Mounting possible with SOT-563 automatic mounting machines.
- Transistor elements are independent, eliminating interference.
- Mounting cost and area be cut in half.

Marking: H10

Equivalent circuit



Absolute maximum ratings(Ta=25℃)

Parameter	Symbol	Limits	Unit
Supply voltage	V_{CC}	50	V
Input voltage	V_{IN}	-5~12	V
Output current	I_O	100	mA
	$I_{C(MAX)}$	100	
Power dissipation	Pd	150	mW
Junction temperature	Tj	150	℃
Storage temperature	Tstg	-55~150	℃

Electrical characteristics (Ta=25℃)

Parameter	Symbol	Min.	Typ	Max.	Unit	Conditions
Input voltage	$V_{I(off)}$	0.5			V	V_{CC}=5V, I_O=100μA
	$V_{I(on)}$			1.1		V_O=0.3V, I_O=5mA
Output voltage	$V_{O(on)}$		0.1	0.3	V	I_O/I_I=5mA/0.25mA
Input current	I_I			3.6	mA	V_I=5V
Output current	$I_{O(off)}$			0.5	μA	V_{CC}=50V, V_I=0
DC current gain	G_I	80				V_O=5V, I_O=10mA
Input resistance	R_1	1.54	2.2	2.86	KΩ	-
Resistance ratio	R_2/R_1	17	21	26		-
Transition frequency	f_T		250		MHz	V_{CE}=10V, I_E=5mA, f=100MHz