

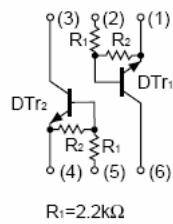
General purpose transistors (dual transistors)

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.

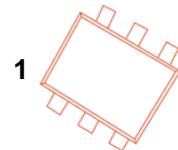
Marking: H10

Equivalent circuit



R₁=2.2kΩ
R₂=47kΩ

SOT-563



Absolute maximum ratings(Ta=25°C)

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	P _d	150		mW
Junction temperature	T _j	150		°C
Storage temperature	T _{stg}	-55~150		°C

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)}	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 _i	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