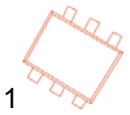
JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

SOT-563 Plastic-Encapsulate Transistors

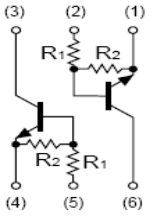
EMH1 (dual digital transistors)

SOT-563



FEATURES

- Two DTC124E chips in a package



R1=R2=22KΩ

MARKING: H1

Absolute maximum ratings(Ta=25℃)

Parameter	Symbol	Limits	Unit
Supply voltage	V_{CC}	50	V
Input voltage	V_{IN}	-10~40	V
Output current	I_O	30	mA
	$I_{C(MAX)}$	100	
Power dissipation	P_D	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
	$V_{I(on)}$			3		V_O=0.2V, I_O=5mA
Output voltage	$V_{O(on)}$		0.1	0.3	V	I_O/I_I=10mA/0.5mA
Input current	I_I			0.36	mA	V_I=5V
Output current	$I_{O(off)}$			0.5	μA	V_{CC}=50V, V_I=0
DC current gain	G_I	56				V_O=5V, I_O=5mA
Input resistance	R_1	15.4	22	28.6	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