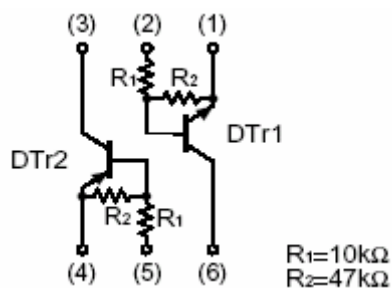
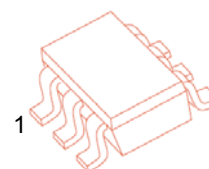


DIGITAL TRANSISTOR (NPN+PNP)

FEATURES

- DTA114Y and DTC114Y transistors are built-in a package.

External circuit


SOT-363


MARKING:D9

Absolute maximum ratings(Ta=25°C)

Parameter	Symbol	Limits	Unit
Supply voltage	V_{CC}	50	V
Input voltage	V_{IN}	-6~40	V
Output current	I_o	70	mA
	$I_{C(MAX)}$	100	
Power dissipation	P_d	150(TOTAL)	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	$V_{I(off)}$			0.3	V	$V_{CC}=5V, I_o=100\mu A$
	$V_{I(on)}$	1.4				$V_o=0.3V, I_o=1mA$
Output voltage	$V_{O(on)}$			0.3	V	$I_o/I_i=5mA/0.25mA$
Input current	I_i			0.88	mA	$V_i=5V$
Output current	$I_{O(off)}$			0.5	μA	$V_{CC}=50V, V_i=0$
DC current gain	G_I	68				$V_o=5V, I_o=5mA$
Input resistance	R_1	7	10	13	K Ω	
Resistance ratio	R_2/R_1	3.7	4.7	5.7		
Transition frequency	f_T		250		MHz	$V_{CE}=10V, I_E=-5mA, f=100MHz$