

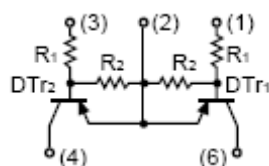
dual digital transistors (PNP+ PNP)

FEATURES

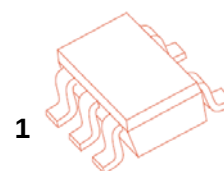
- Two DTA143Z chips in a package
- Mounting cost and area can be cut in half

Marking: A11

Equivalent circuit



SOT-353



Absolute maximum ratings ($T_a=25^{\circ}\text{C}$)

Symbol	Parameter	Value	Units
V_{CC}	Supply Voltage	-50	V
$I_{C(MAX)}$	Output Current	-100	mA
V_i	Input Voltage	-30 to +5	V
P_D	Power Dissipation	150	mW
T_J	Junction Temperature	150	$^{\circ}\text{C}$
T_{stg}	Storage Temperature	-55~+150	$^{\circ}\text{C}$

Electrical Characteristics ($T_a=25^{\circ}\text{C}$)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Input turn-on voltage	$V_{i(on)}$	$V_O=-0.3\text{V}$, $I_O=-5\text{mA}$			-1.3	V
Input cut-off voltage	$V_{i(off)}$	$V_{CC}=-5\text{V}$, $I_O=-100\mu\text{A}$	-0.5			V
Output voltage	$V_{O(on)}$	$I_O=-5\text{mA}$, $I_i=-0.25\text{mA}$			-0.3	V
Input cut-off current	I_i	$V_i=-5\text{V}$			-1.8	mA
Output cut-off current	$I_{O(off)}$	$V_{CC}=-50\text{V}$, $V_i=0$			-0.5	μA
DC current gain	G_i	$V_O=-5\text{V}$, $I_O=-10\text{mA}$	80			
Transition frequency	f_T	$V_O=-10\text{V}$, $I_O=-5\text{mA}$, $f=100\text{MHz}$		250		MHz
Input resistance	R_1		3.29		6.11	K Ω
Resistance ratio	R_2/R_1		8		12	