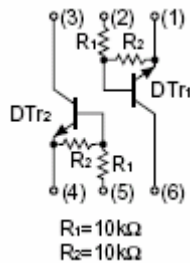


RoHS Compliant Product

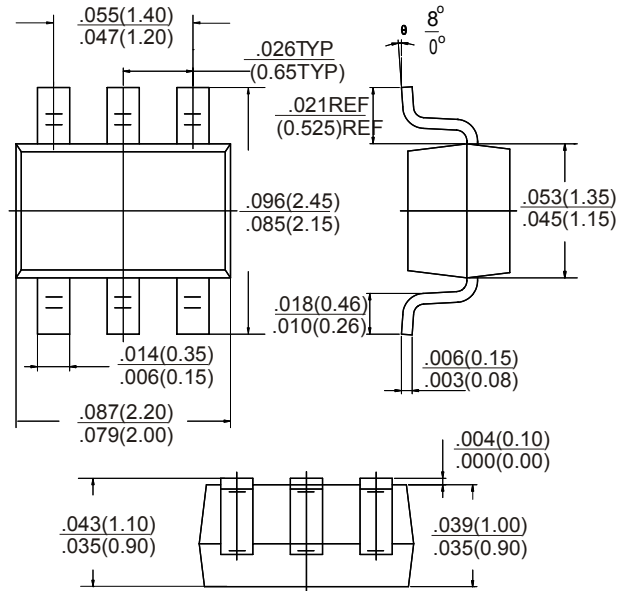
## Features

- \* Mounting possible with UMT3 automatic mounting machines.
- \* Transistor elements are independent, eliminating interference.
- \* Mounting cost and area can be cut in half.
- \* Two DTC114E chips in a UMT package

## MARKING: H11



## SOT-363



Dimensions in inches and (millimeters)

## Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Supply voltage	$V_{CC}$	50	V
Input voltage	$V_{IN}$	-10~40	V
Output current	$I_O$	50	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	$V_{I(off)}$			0.5	V	$V_{CC}=5V, I_O=100\mu A$
	$V_{I(on)}$	3				$V_O=0.3V, I_O=10\text{ mA}$
Output voltage	$V_{O(on)}$			0.3	V	$I_O/I_I=10\text{mA}/0.5\text{mA}$
Input current	$I_I$			0.88	mA	$V_I=5V$
Output current	$I_{O(off)}$			0.5	$\mu A$	$V_{CC}=50V, V_I=0$
DC current gain	$G_I$	30				$V_O=5V, I_O=5\text{mA}$
Input resistance	$R_I$	7	10	13	K $\Omega$	
Resistance ratio	$R_2/R_1$	0.8	1	1.2		
Transition frequency	$f_T$		250		MHz	$V_{CE}=10V, I_E=-5\text{mA}, f=100\text{MHz}$

## Typical Characteristics

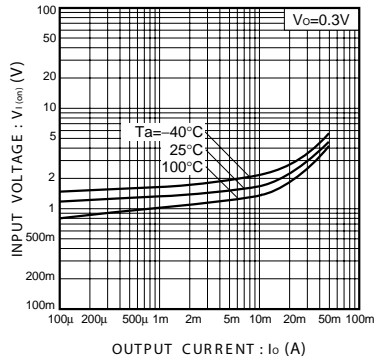


Fig.1 Input voltage vs. output current (ON characteristics)

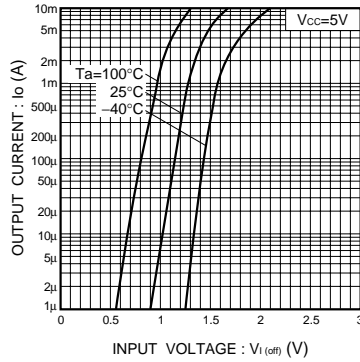


Fig.2 Output current vs. input voltage (OFF characteristics)

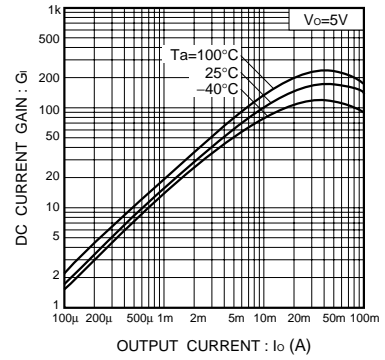


Fig.3 DC current gain vs. output current

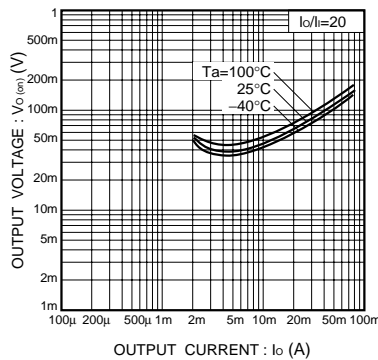


Fig.4 Output voltage vs. output current