

**Micro Commercial Components** 

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## Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information) Epitaxial Planar Die Construction
- Complementary NPN Types Available
- **Built-In Biasing Resistors** .
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Marking: 64

### Absolute maximum ratings @ $25^{\circ}$ C

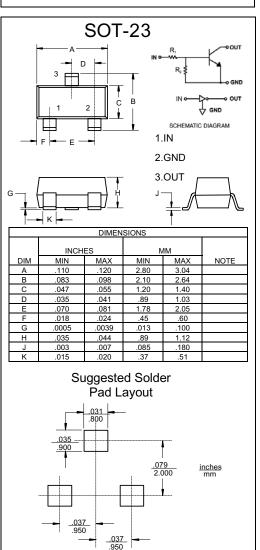
Symbol	Parameter	Min	Тур	Max	Unit
lc	Collector current		100		mA
VIN	Input voltage	-6		+40	V
Pd	Power dissipation		200		mW
Tj	Junction temperature		150		°C
T <sub>stg</sub>	Storage temperature	-55		150	°C

### Electrical Characteristics @ 25°C

Symbol	Parameter	Min	Тур	Max	Unit
V <sub>I(off)</sub>	Input voltage (V <sub>CC</sub> =5V, I <sub>O</sub> =100 µ A)			0.3	V
V <sub>I(on)</sub>	(V <sub>o</sub> =0.3V, I <sub>o</sub> =1mA)	1.4			V
V <sub>O(on)</sub>	Output voltage (I <sub>0</sub> =5mA,I <sub>i</sub> =0.25mA)			0.3	V
I <sub>I</sub>	Input current (V <sub>I</sub> =5V)			0.88	mA
I <sub>O(off)</sub>	Output current (V <sub>CC</sub> =50V, V <sub>I</sub> =0)			0.5	μA
G	DC current gain (V <sub>0</sub> =5V, I <sub>0</sub> =5mA)	68			
R <sub>1</sub>	Input resistance	7	10	13	KΩ
R <sub>2</sub> /R <sub>1</sub>	Resistance ratio	3.7	4.7	5.7	
f⊤	Transition frequency (V <sub>CE</sub> =10V, I <sub>E</sub> =5mA, f=100MHz)		250		MHz

# DTC114YCA

# **Digital Transistors**



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**Revision:** A



## **Ordering Information :**

Device	Packing
Part Number-TP	Tape&Reel 3Kpcs/Reel

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