勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787

Http://www.100y.com.tw





**Micro Commercial Components** 

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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# DTC113ZUA

## **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: E21

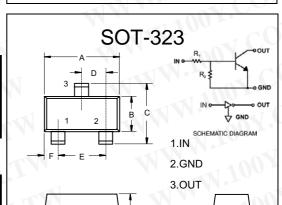
## Absolute maximum ratings @ $25^{\circ}$ C

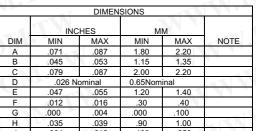
Symbol	Parameter	Min	Тур	Max	Unit
Ic	Collector current		100	(-17)	mA
$V_{IN}$	Input voltage	-5	<b></b>	+10	V
P <sub>d</sub>	Power dissipation	141	200		mW
T <sub>j</sub>	Junction temperature		150		${\mathbb C}$
T <sub>stg</sub>	Storage temperature	-55	0-3/	150	$^{\circ}$

## **Electrical Characteristics @ 25°C**

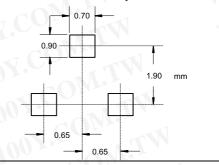
Symbol	Parameter	Min	Тур	Max	Unit
$V_{I(off)}$	Input voltage (V <sub>CC</sub> =5V, I <sub>O</sub> =100 μ A)	/	-	0.3	V
V <sub>I(on)</sub>	(V <sub>o</sub> =0.3V, I <sub>o</sub> =20mA)	3.0	4-4//	) 12.	V
$V_{O(on)}$	Output voltage (I <sub>O</sub> =10mA,I <sub>i</sub> =0.5mA)	1-4		0.3	V
7 1	Input current (V <sub>i</sub> =5V)	//		7.2	mA
I <sub>O(off)</sub>	Output current (V <sub>CC</sub> =50V, V <sub>I</sub> =0)		-1-A	0.5	μА
G	DC current gain (V <sub>0</sub> =5V, I <sub>0</sub> =5mA)	33	1.0.	/-	
R₁	Input resistance	0.7	1.0	1.3	KΩ
R <sub>2</sub> /R <sub>1</sub>	Resistance ratio	8	10	12	
f <sub>T</sub>	Transition frequency (V <sub>CE</sub> =10V, I <sub>E</sub> =5mA, f=100MHz)		250	4700	MHz

## **Digital Transistors**





.035 Suggested Solder Pad Layout





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### **Ordering Information:**

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

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