# imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



# Contact us

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**Micro Commercial Components** 



**Micro Commercial Components** 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 (818) 701-4939 Fax:

### **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
- Halogen free available upon request by adding suffix "-HF"

#### Absolute maximum ratings @ 25°C

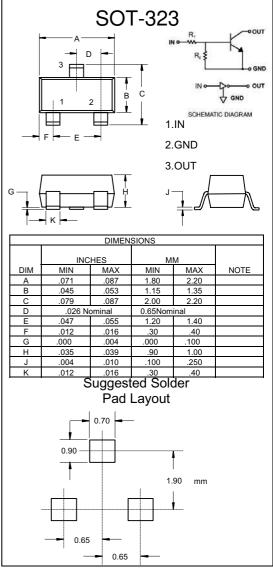
Symbol	Parameter	Min	Тур	Max	Unit
I <sub>c</sub>	Collector current		100		mA
V <sub>IN</sub>	Input voltage	-5		+10	V
Pd	Power dissipation		200		mW
Tj	Junction temperature		150		°C
T <sub>stg</sub>	Storage temperature	-55		150	°C

#### 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> =20mA)	3.0			V
V <sub>O(on)</sub>	Output voltage (I <sub>0</sub> =10mA,I <sub>i</sub> =0.5mA)			0.3	V
l <sub>i</sub>	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)			0.5	μA
G	DC current gain (V <sub>o</sub> =5V, I <sub>o</sub> =5mA)	33			
R <sub>1</sub>	Input resistance	0.7	1.0	1.3	KΩ
R <sub>2</sub> /R <sub>1</sub>	Resistance ratio	8	10	12	
f⊤	Transition frequency (V <sub>CE</sub> =10V, I <sub>E</sub> =5mA, f=100MHz)		250		MHz

## DTC113ZUA

### **Digital Transistors**



### www.mccsemi.com



### **Ordering Information :**

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

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

#### **\*\*\*IMPORTANT NOTICE\*\*\***

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#### \*\*\*LIFE SUPPORT\*\*\*

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

#### \*\*\*CUSTOMER AWARENESS\*\*\*

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources.** MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

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