

# **Excellent Integrated System Limited**

Stocking Distributor

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Micro Commercial Components (MCC) DTC143ZCA-TP

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>



Distributor of Micro Commercial Components (MCC) : Excellent Integrated System Limite Datasheet of DTC143ZCA-TP - TRANS PREBIAS NPN 200MW SOT23 Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



**Micro Commercial Components** 



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

# DTC143ZCA

**Digital Transistors** 

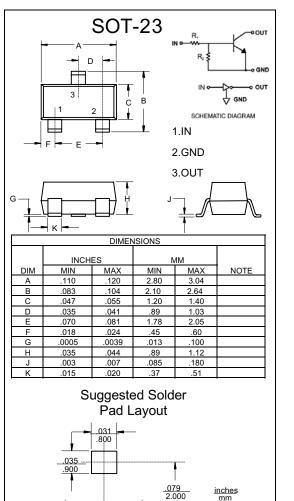
# **Features**

- 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: E23
- Halogen free available upon request by adding suffix "-HF" Absolute maximum ratings @ 25°C

Parameter	Min	Тур	Max	Unit
supply voltage		50		V
Collector current		100		mA
Input voltage	-5		+30	V
Power dissipation		200		mW
Junction temperature		150		°C
Storage temperature	-55		150	°C
	supply voltage Collector current Input voltage Power dissipation Junction temperature	supply voltage     Collector current     Input voltage  -5    Power dissipation     Junction temperature	supply voltage50Collector current100Input voltage-5Power dissipation200Junction temperature150	supply voltage       50         Collector current       100         Input voltage      -5       +30        Power dissipation       200         Junction temperature       150

## **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)	0.5			V
V <sub>I(on)</sub>	(V <sub>o</sub> =0.3V, I <sub>o</sub> =5mA)			1.3	V
V <sub>O(on)</sub>	Output voltage (I <sub>0</sub> =5mA,I <sub>i</sub> =0.25mA)			0.3	V
l <sub>l</sub>	Input current (V <sub>1</sub> =5V)			1.8	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> =10mA)	80			
R <sub>1</sub>	Input resistance	3.29	4.7	6.11	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		MHz



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.037 .950

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**Micro Commercial Components** 

## **Ordering Information :**

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

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

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