

**Micro Commercial Components** 

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## DTC143ZCA

### Features

- Epitaxial Planar Die Construction
- Complementary NPN Types Available
- Built-In Biasing Resistors
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1
- Marking: E23

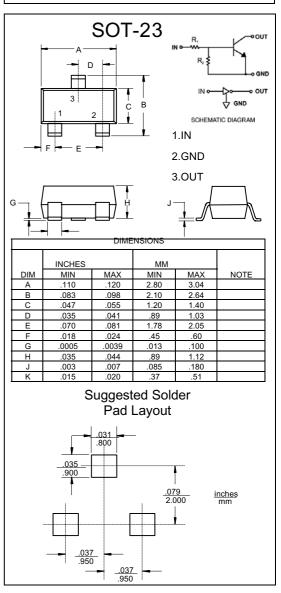
#### Absolute maximum ratings @ $25^{\circ}$ C

Symbol	Parameter	Min	Тур	Max	Unit
lc	Collector current		100		mA
VIN	Input voltage	-5		+30	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)			1.3	V
V <sub>I(on)</sub>	(V <sub>o</sub> =0.3V, I <sub>o</sub> =5mA)	0.5			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)			1.8	mA
I <sub>O(off)</sub>	Output current (V <sub>cc</sub> =50V, V <sub>I</sub> =0)			0.5	μA
Gi	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
$R_2/R_1$	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

## **Digital Transistors**



# www.mccsemi.com



### **Ordering Information**

Device	Packing
(Part Number)-TP	Tape&Reel3Kpcs/Reel

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