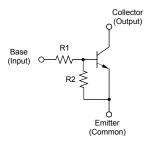


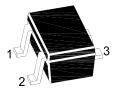
# DTC143ZE

### NPN Silicon Epitaxial Planar Digital Transistor

#### Features

- With built-in bias resistors
- Simplify circuit design
- Reduce a quantity of parts and manufacturing process





1.Base 2.Emitter 3.Collector SOT-523 Plastic Package

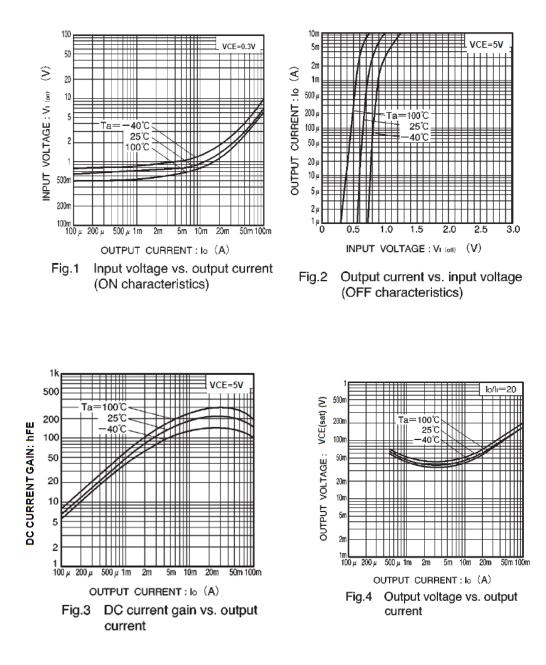
#### Absolute Maximum Ratings (T<sub>a</sub> = 25 °C)

3- (·a)	i	i	
Parameter	Symbol	Value	Unit
Collector Emitter Voltage	V <sub>CEO</sub>	50	V
Input Voltage	VI	- 5 to + 30	V
Collector Current	Ι <sub>C</sub>	100	mA
Power Dissipation	P <sub>tot</sub>	150	mW
Junction Temperature	Tj	150	°C
Storage Temperature Range	T <sub>stg</sub>	- 55 to + 150	°C

#### Characteristics at T<sub>a</sub> = 25 °C

Parameter	Symbol	Min.	Тур.	Max.	Unit
DC Current Gain at $V_{CE}$ = 5 V, I <sub>C</sub> = 10 mA	h <sub>FE</sub>	80	-	-	-
Collector Base Cutoff Current at $V_{CB}$ = 50 V	I <sub>CBO</sub>	-	-	0.5	μA
Emitter Base Cutoff Current at $V_{EB}$ = 5 V	I <sub>EBO</sub>	-	-	1.8	mA
Collector Emitter Saturation Voltage at $I_c = 5 \text{ mA}$ , $I_B = 0.25 \text{ mA}$	V <sub>CE(sat)</sub>	-	-	0.3	V
Input on Voltage at $V_{CE}$ = 0.3 V, I <sub>C</sub> = 5 mA	V <sub>I(on)</sub>	-	-	1.3	V
Input off Voltage at $V_{CE}$ = 5 V, I <sub>C</sub> = 100 µA	V <sub>I(off)</sub>	0.5	-	-	V
Transition frequency at $V_{CE}$ = 10 V, -I <sub>E</sub> = 5 mA, f = 100 MHz	f⊤	-	250	-	MHz
Input Resistance	R <sub>1</sub>	3.29	4.7	6.11	KΩ
Resistance Ratio	$R_2/R_1$	8	10	12	-





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