

## **DTA144T**

## **PNP SILICON TRANSISITOR**

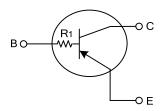
## PNP DIGITAL TRANSISTOR (BUILT-IN RESISTOR)

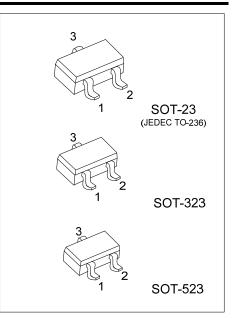
#### **FEATURES**

\* Built-in bias resistors that implies easy ON/OFF applications.

\* The bias resistors are thin-film resistors with complete isolation to allow positive input.

#### **EQUIVALENT CIRCUIT**





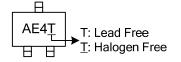
#### **ORDERING INFORMATION**

Ordering Number		Dookago	Pin Assignment			Dooking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
DTA144TL-AE3-R	DTA144TG-AE3-R	SOT-23	В	Е	С	Tape Reel	
DTA144TL-AL3-R	DTA144TG-AL3-R	SOT-323	В	E	С	Tape Reel	
DTA144TL-AN3-R	DTA144TG-AN3-R	SOT-523	В	Е	С	Tape Reel	
Note: Pin Assignment: B: Base E: Emitter C: Collector							

NOTE: PIN ASSIGNMENT: B: Base E: Emitter 

DTA144TG-AE3-R		
	(1)Packing Type	(1) R: Tape Reel
	(2)Package Type	(2) AE3: SOT-23, AL3: SOT-323, AN3: SOT-523
	(3)Green Package	(3) G: Halogen Free and Lead Free, L: Lead Free

#### MARKING -



### ■ ABSOLUTE MAXIMUM RATINGS (T<sub>A</sub> =25°C, unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNIT	
Collector-Base Voltage	V <sub>CBO</sub> -50		V	
Collector-Emitter Voltage	V <sub>CEO</sub>	-50	V	
Emitter-Base Voltage	V <sub>EBO</sub>	-5	V	
Collector Current	Ιc	-100	mA	
Collector Power Dissipation	Pc	200	mW	
Junction Temperature	TJ	+150	°C	
Storage Temperature	T <sub>STG</sub>	-55 ~ +150	°C	

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

### ■ ELECTRICAL CHARACTERISTICS (T<sub>A</sub> =25°C, unless otherwise specified)

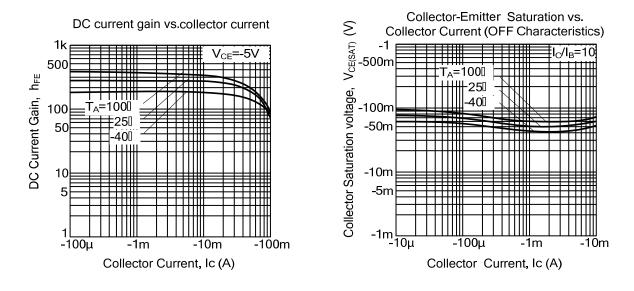
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	BV <sub>CBO</sub>	I <sub>C</sub> =-50μΑ	-50			V
Collector-Emitter Breakdown Voltage	BV <sub>CEO</sub>	I <sub>C</sub> =-1mA	-50			V
Emitter-Base Breakdown Voltage	$BV_{EBO}$	I <sub>E</sub> =-50μA	-5			V
Collector Cutoff Current	I <sub>CBO</sub>	V <sub>CB</sub> =-50V			-0.5	μA
Emitter Cutoff Current	I <sub>EBO</sub>	V <sub>EB</sub> =-4V			-0.5	μA
Collector-Emitter Saturation Voltage	V <sub>CE(SAT)</sub>	I <sub>C</sub> =-5mA, I <sub>B</sub> = -0.5mA			-0.3	V
DC Current Transfer Ratio	h <sub>FE</sub>	V <sub>CE</sub> =-5V, I <sub>C</sub> = -1mA	100	250	600	
Transition Frequency (Note)	f⊤	V <sub>CE</sub> =-10V, I <sub>E</sub> =5mA, f=100MHz		250		MHz
Input Resistance	R1		32.9	47	61.1	kΩ

Note: Transition frequency of the device.



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### TYPICAL CHARACTERISTICS



UTC assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all UTC products described or contained herein. UTC products are not designed for use in life support appliances, devices or systems where malfunction of these products can be reasonably expected to result in personal injury. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. UTC reserves the right to make changes to information published in this document, including without limitation specifications and product descriptions, at any time and without notice. This document supersedes and replaces all information supplied prior to the publication hereof.

