



查询"DTC144TL-AE3-R"供应商

UNISONIC TECHNOLOGIES CO., LTD

DTC144T

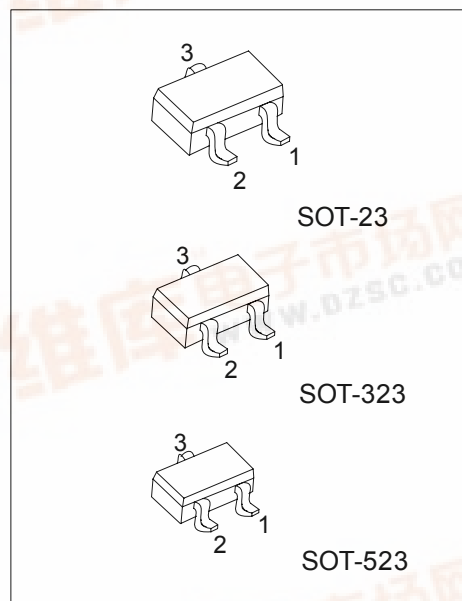
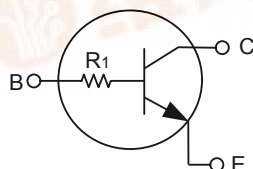
NPN SILICON TRANSISTOR

NPN DIGITAL TRANSISTOR (BUILT-IN BIAS RESISTORS)

FEATURES

- * Built-in bias resistors that implies easy ON/OFF applications.
- * The bias resistors are thin-film resistors with complete isolation to allow negative input.

EQUIVALENT CIRCUIT



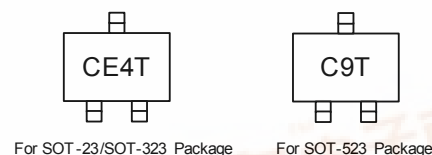
*Pb-free plating product number:DTC144TL

ORDERING INFORMATION

Order Number		Package	Pin Assignment			Packing
Normal	Lead Free Plating		1	2	3	
DTC144T-AE3-R	DTC144TL-AE3-R	SOT-23	E	B	C	Tape Reel
DTC144T-AL3-R	DTC144TL-AL3-R	SOT-323	E	B	C	Tape Reel
DTC144T-AN3-R	DTC144TL-AN3-R	SOT-523	E	B	C	Tape Reel

DTC144TL-AE3-R (1)Packing Type (2)Package Type (3)Lead Plating	(1) R: Tape Reel (2) AE3: SOT-23, AL3: SOT-323, AN3: SOT-523 (3) L: Lead Free Plating, Blank: Pb/Sn
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MARKING



■ ABSOLUTE MAXIMUM RATINGS (Ta = 25 °C)

PARAMETER		SYMBOL	RATING	UNIT
Collector-Base Voltage		V_{CBO}	50	V
Collector-Emitter Voltage		V_{CEO}	50	V
Emitter-Base Voltage		V_{EBO}	5	V
Collector Current		I_C	100	mA
Collector Power Dissipation	SOT-523	P_C	150	mW
	SOT-23/SOT-323		200	mW
Junction Temperature		T_J	150	
Storage Temperature		T_{STG}	-55~+150	

Note Absolute maximum ratings are those values beyond which the device could be permanently damaged.

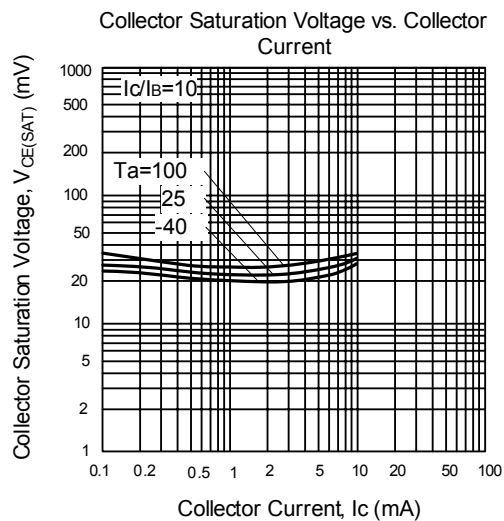
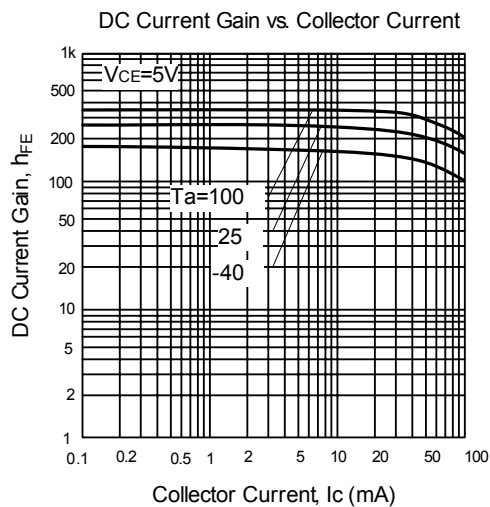
Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ ELECTRICAL CHARACTERISTICS (Ta= 25 °C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	BV_{CBO}	$I_C=50\mu A$	50			V
Collector-Emitter Breakdown Voltage	BV_{CEO}	$I_C=1mA$	50			V
Emitter-Base Breakdown Voltage	BV_{EBO}	$I_E=50\mu A$	5			V
Collector Cutoff Current	I_{CBO}	$V_{CB}=50V$			0.5	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB}=4V$			0.5	μA
Collector-Emitter Saturation Voltage	$V_{CE(SAT)}$	$I_C=5mA, I_B=0.5mA$			0.3	V
DC Current Gain	h_{FE}	$V_{CE}=5V, I_C=1mA$	100	250	600	
Input Resistance	R_1		32.9	47	61.1	k Ω
Transition Frequency	f_T	$V_{CE}=10V, I_E=-5mA, f=100MHz^*$		250		MHz

* Transition frequency of the device

■ 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. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice.