UNISONIC TECHNOLOGIES CO., LTD.

DTA143T

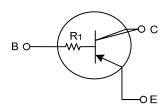
PNP SILICON TRANSISTOR

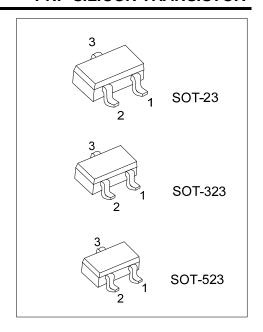
DIGITAL TRANSISTORS (BUILT- IN BIAS RESISTORS)

FEATURES

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

EQUIVALENT CIRCUIT

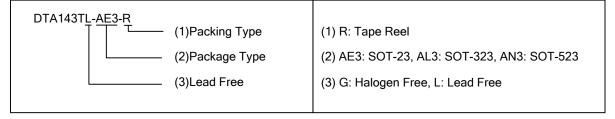




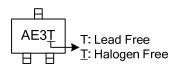
ORDERING INFORMATION

Doolsing	nent	Assignm	Pin	Dookogo	Ordering Number	
Packing	3	2	1	Package	Halogen Free	Lead Free
Tape Reel	В	С	Е	SOT-23	DTA143TG-AE3-R	DTA143TL-AE3-R
Tape Reel	В	С	Е	SOT-323	DTA143TG-AL3-R	DTA143TL-AL3-R
Tape Reel	В	С	Е	SOT-523	DTA143TG-AN3-R	DTA143TL-AN3-R

Note: Pin Assignment: E: Emitter, B: Base, C: Collector



MARKING



www.unisonic.com.tw 1of 3 QW-R206-058,E

■ ABSOLUTE MAXIMUM RATINGS (Ta=25°C, unless otherwise specified)

PARAMETER		SYMBOL	RATINGS	UNIT
Collector-Base Voltage		V_{CBO}	-50	V
Collector-Emitter Voltage		V_{CEO}	-50	٧
Emitter-Base Voltage		V_{EBO}	-5	V
Collector Current		Ic	-100	mA
Collector Power Dissipation	SOT-23/SOT-323	0	200	mW
	SOT-523	Pc	150	mW
lunction Temperature		T_J	+150	$^{\circ}$
Storage Temperature		T _{STG}	-40~+150	$^{\circ}$

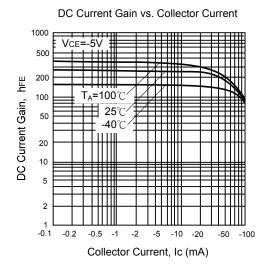
Note Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

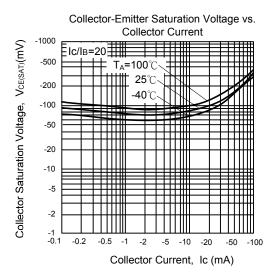
■ **ELECTRICAL CHARACTERISTICS** (Ta=25°C, unless otherwise specified.)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	BV _{CBO}	I _C =-50μA	-50			V
Collector-emitter breakdown voltage	BV _{CEO}	I _C =-1mA	-50			V
Emitter-base breakdown voltage	BV _{EBO}	I _E =-50μA	-5			V
Collector cutoff current	I _{CBO}	V _{CB} =-50V			-0.5	μΑ
Emitter cutoff current	I _{EBO}	V _{EB} =-4V			-0.5	μΑ
Collector-emitter saturation voltage	V _{CE(SAT)}	I_C =-5mA, I_B = -0.25mA			-0.3	V
DC Current Gain	h _{FE}	V_{CE} =-5V, I_{C} = -1mA	100	250	600	
Input resistance	R ₁		3.29	4.7	6.11	kΩ
Transition frequency	f _T	V _{CE} =-10V, I _E =5mA, f=100MHz (Note)		250		MHz

Note: 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.