

UTC UNISONIC TECHNOLOGIES CO., LTD

DTA115T

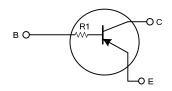
PNP SILICON TRANSISTOR

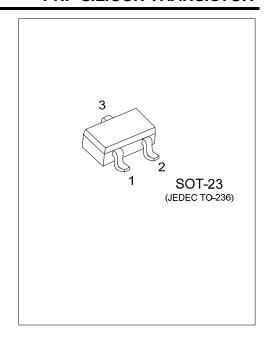
DIGITAL TRANSISTORS (BUILT- IN BIAS RESISTORS)

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

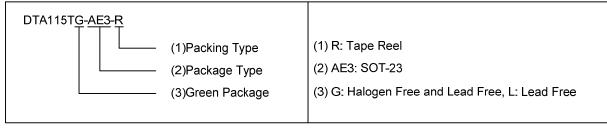




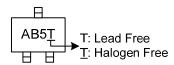
ORDERING INFORMATION

Ordering Number		Daakaga	Pin Assignment			Dooking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
DTA115TL-AE3-R	DTA115TG-AE3-R	SOT-23	В	Е	С	Tape Reel	

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



MARKING



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

PARAMETER	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	-50	٧
Collector-Emitter Voltage	$V_{\sf CEO}$	-50	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current	Ic	-100	mA
Collector Power Dissipation	Pc	200	mW
Junction Temperature	T_J	+150	Ç
Storage Temperature	T _{STG}	-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 SPECIFICATIONS (T_A=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-Emitter Saturation Voltage	V _{CE(SAT)}	I_C =-1mA, I_B =-0.1mA			-0.3	V
Collector Cutoff Current	I _{CBO}	V _{CB} =-50V			-0.5	μΑ
Emitter Cutoff Current	I _{EBO}	V _{EB} =-4V			-0.5	μΑ
DC Current Gain	h _{FE}	V_{CE} =-5V, I_{C} =-1mA	100	250	600	
Input Resistance	R ₁	_	70	100	130	kΩ
Transition Frequency	f _T	V _{CE} =-10V, I _E =5mA,f=100MHz (Note)		250		MHz

Note: Transition frequency of the device

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.