UTC UNISONIC TECHNOLOGIES CO., LTD

DTA115T

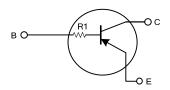
PNP SILICON TRANSISTOR

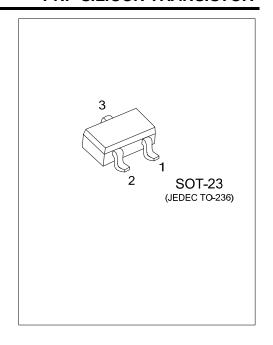
DIGITAL TRANSISTORS (BUILT- IN BIAS RESISTORS)

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

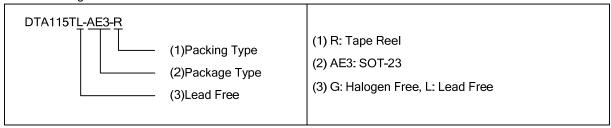




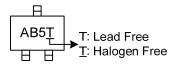
ORDERING INFORMATION

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

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



MARKING



www.unisonic.com.tw 1 of 2 QW-R206-062,Ba

■ ABSOLUTE MAXIMUM RATINGS (T_A=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	Ic	-100	mA
Collector Power Dissipation	Pc	200	mW
Junction Temperature	T_J	+150	$^{\circ}\!\mathbb{C}$
Storage Temperature	T _{STG}	-55~+150	$^{\circ}\!\mathbb{C}$

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)

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	μA
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

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