

UTC UNISONIC TECHNOLOGIES CO., LTD

DTA124T

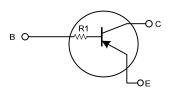
PNP SILICON TRANSISTOR

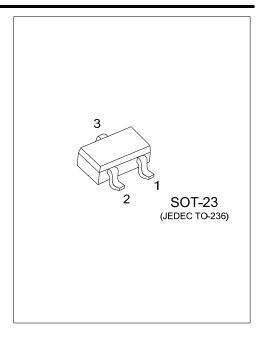
DIGITAL TRANSISTORS (BUILT- IN BIAS RESISTORS)

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

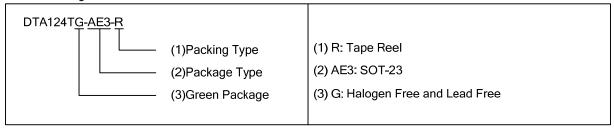




ORDERING INFORMATION

Ordering Number	Package	Pin Assignment			Dooking	
		1	2	3	Packing	
DTA124TG-AE3-R	SOT-23	Е	В	С	Tape Reel	

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



MARKING



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

PARAMETER	SYMBOL	RATINGS	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	°C
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 CHARACTERISTICS (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 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 = -0.5mA			-0.3	V
DC Current Transfer Ratio	h _{FE}	V_{CE} =-5V, I_{C} = -1mA	100	250	600	
Transition Frequency (Note)	f_{T}	V _{CE} =-10V, I _E =5mA, f=100MHz		250		MHz
Input Resistance	R1		15.4	22	28.6	kΩ

Note: Transition frequency of the device.

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