

UTC UNISONIC TECHNOLOGIES CO., LTD

DTA114T

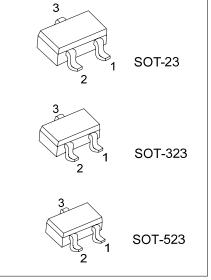
PNP SILICON TRANSISTOR

DIGITAL TRANSISTORS (BUILT- IN BIAS RESISTORS)

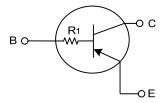
FEATURES

* 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



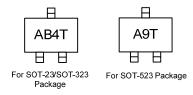
*Pb-free plating product number:DTA114TL

ORDERING INFORMATION

Order Number		Deekege	Pin Assignment			Deaking	
Normal	Lead Free Plating	Package	1	2	3	Packing	
DTA114T-AE3-R	DTA114TL-AE3-R	SOT-23	Е	В	С	Tape Reel	
DTA114T-AL3-R	DTA114TL-AL3-R	SOT-323	Е	В	С	Tape Reel	
DTA114T-AN3-R	DTA114TL-AN3-R	SOT-523	E	В	С	Tape Reel	

DTA114TI -AF3-R		
	(1)Packing Type	(1) R: Tape Reel
	(2)Package Type	(2) AE3: SOT-23, AL3: SOT-323, AN3: SOT-523
	(3)Lead Plating	(3) L: Lead Free Plating, Blank: Pb/Sn

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		lc	-100	mA
Collector Power Dissipation	SOT-23		200	mW
	SOT-323/SOT-523	Pc -	150	mW
Junction Temperature		TJ	+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 (Ta= 25°C, unless otherwise specified)

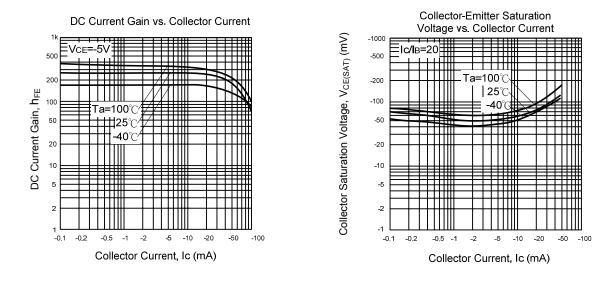
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	BV_{CBO}	Ι _C =-50μΑ	-50			V
Collector-Emitter Breakdown Voltage	BV_{CEO}	I _C =-1mA	-50			V
Emitter-Base Breakdown Voltage	BV_{EBO}	Ι _Ε =-50μΑ	-5			V
Collector-Emitter Saturation Voltage	V _{CE(SAT)}	I _C =-10mA, I _B =-1mA			-0.3	V
Collector Cutoff Current	I _{CBO}	V _{CB} =-50V			-0.5	μA
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		7	10	13	kΩ
Transition Frequency	f _T	V _{CE} =-10V, I _E =5mA, f=100MHz*		250		MHz

* Transition frequency of the device



DTA114T

TYPICAL CHARACTERISTICS



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