UNISONIC TECHNOLOGIES CO., LTD

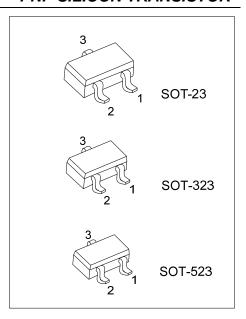
DTA114T

PNP SILICON TRANSISTOR

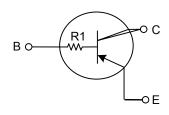
DIGITAL TRANSISTORS (BUILT- IN BIAS RESISTORS)

■ 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.

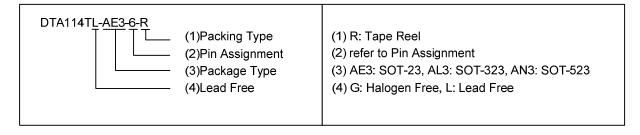


■ EQUIVALENT CIRCUIT

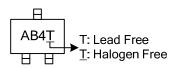


■ ORDERING INFORMATION

Order Number		Dookogo	Pin Assignment			Dooking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
DTA114TL-AE3-6-R	DTA114TG-AE3-6-R	SOT-23	Е	В	О	Tape Reel	
DTA114TL-AL3-6-R	DTA114TG-AL3-6-R	SOT-323	Е	В	O	Tape Reel	
DTA114TL-AN3-6-R	DTA114TG-AN3-6-R	SOT-523	Е	В	С	Tape Reel	



MARKING



■ ABSOLUTE MAXIMUM RATINGS (T_A = 25°C)

PARAMETER		SYMBOL	RATING	UNIT	
Collector-Base Voltage		V_{CBO}	-50	V	
Collector-Emitter Voltage		$V_{\sf CEO}$	-50	V	
Emitter-Base Voltage		V_{EBO}	-5	V	
Collector Current		Ic	-100	mA	
Collector Power Dissipation	SOT-23	0	200	mW	
	SOT-323/SOT-523	Pc	150		
Junction Temperature		TJ	+150	$^{\circ}\!\mathbb{C}$	
Storage Temperature		T _{STG}	-55~+150	$^{\circ}\!\mathbb{C}$	

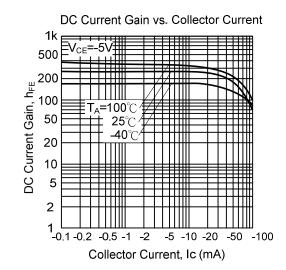
Note Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

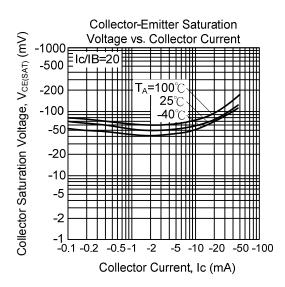
■ ELECTRICAL CHARACTERISTICS (T_A= 25°C, unless otherwise specified)

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-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	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		7	10	13	kΩ
Transition Frequency	f_{T}	V _{CE} =-10V, I _E =5mA,f=100MHz (Note)		250		MHz

Note: Transition frequency of the device

■ TYPICAL CHARACTERISTICS





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