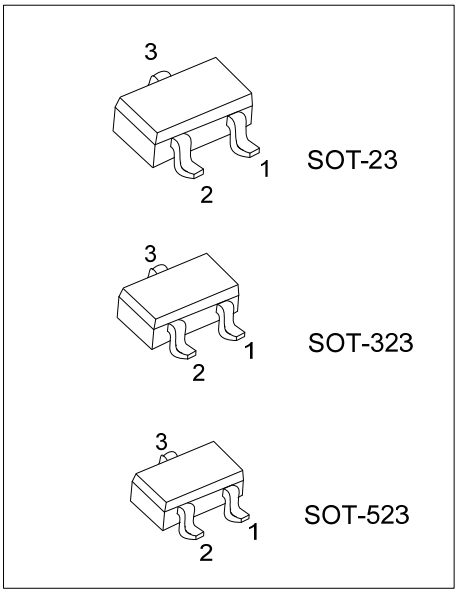
DTA114T

PNP SILICON TRANSISTOR

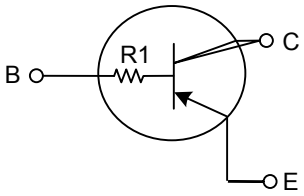
DIGITAL TRANSISTORS (BUILT- IN BIAS RESISTORS)



■ 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

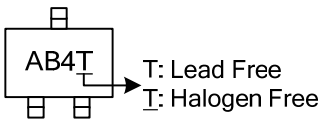
Order Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
DTA114TL-AE3-6-R	DTA114TG-AE3-6-R	SOT-23	E	B	C	Tape Reel
DTA114TL-AL3-6-R	DTA114TG-AL3-6-R	SOT-323	E	B	C	Tape Reel
DTA114TL-AN3-6-R	DTA114TG-AN3-6-R	SOT-523	E	B	C	Tape Reel

DTA114TL-AE3-6-R

(1)Packing Type
(2)Pin Assignment
(3)Package Type
(4)Lead Free

(1) R: Tape Reel
(2) refer to Pin Assignment
(3) AE3: SOT-23, AL3: SOT-323, AN3: SOT-523
(4) G: Halogen Free, L: Lead Free

■ MARKING



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■ ABSOLUTE MAXIMUM RATINGS (T_A = 25℃)

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		I_C	-100	mA
Collector Power Dissipation	SOT-23	P_C	200	mW
	SOT-323/SOT-523		150	
Junction Temperature		T_J	+150	℃
Storage Temperature		T_{STG}	-55~+150	℃

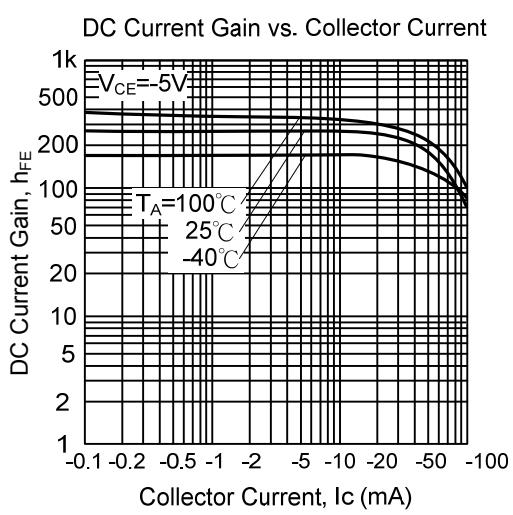
Note Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

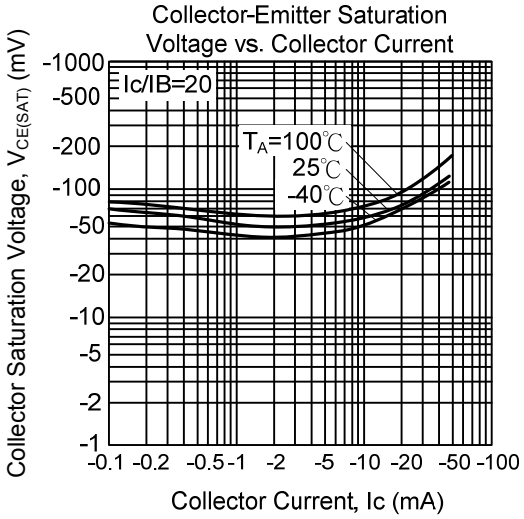
■ ELECTRICAL CHARACTERISTICS (T_A= 25℃, unless otherwise specified)

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	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 (Note)		250		MHz

Note: Transition frequency of the device

■ TYPICAL CHARACTERISTICS





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. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice.