UNISONIC TECHNOLOGIES CO., LTD

DTA114T

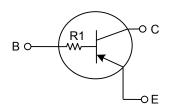
PNP SILICON TRANSISTOR

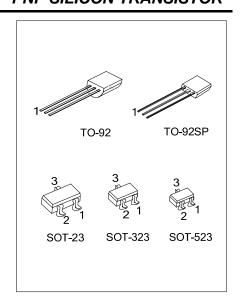
DIGITAL TRANSISTORS (BUILT- IN BIAS RESISTORS)

■ 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

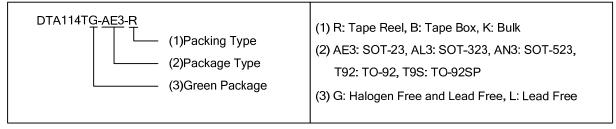




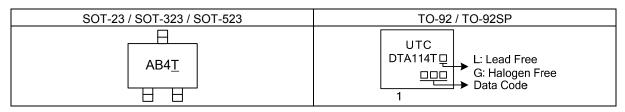
ORDERING INFORMATION

Order Number		D. J. C.	Pin Assignment			Dealtra	
Lead Free	Halogen Free	Package	1	2	3	Packing	
-	DTA114TG-AE3-R	SOT-23	Е	В	С	Tape Reel	
-	DTA114TG-AL3-R	SOT-323	Е	В	С	Tape Reel	
-	DTA114TG-AN3-R	SOT-523	Е	В	С	Tape Reel	
DTA114TL-T92-B	DTA114TG-T92-B	TO-92	Е	С	В	Tape Box	
DTA114TL-T92-K	DTA114TG-T92-K	TO-92	Е	С	В	Bulk	
DTA114TI -T9S-K	DTA114TG-T9S-K	TO-92SP	F	С	В	Bulk	

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



■ MARKING



<u>www.unisonic.com.tw</u> 1of 3

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

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	SOT-23	Pc	200	mW	
	SOT-323/SOT-523		150		
	TO-92		625		
	TO-92SP		550		
Junction Temperature		TJ	+150	°C	
Storage Temperature		T _{STG}	-55~+150	°C	

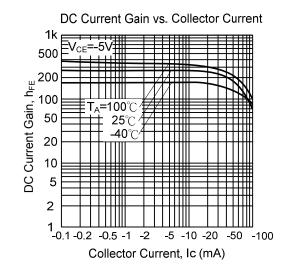
Note Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

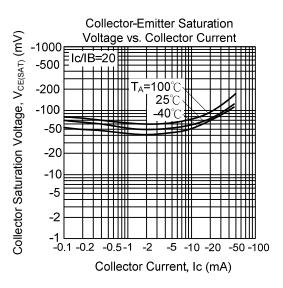
■ ELECTRICAL CHARACTERISTICS (T_A= 25°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS		TYP	MAX	UNIT			
OFF CHARACTERISTICS									
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			
ON CHARACTERISTICS									
DC Current Gain	h _{FE}	V_{CE} =-5V, I_{C} =-1mA	100	250	600				
SMALL SIGNAL CHARACTERISTICS									
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.