

UNISONIC TECHNOLOGIES CO., LTD

PZTA14

NPN SILICON TRANSISTOR

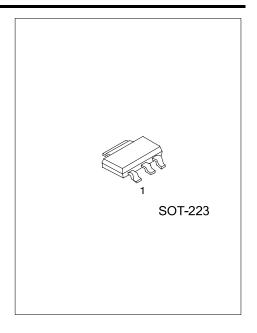
DARLINGTON TRANSISTOR

DESCRIPTION

The UTC PZTA14 is a Darlington transistor.

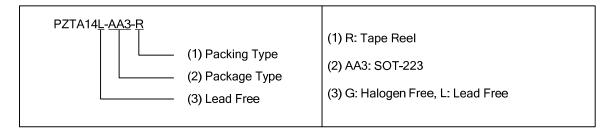
FEATURES

* Collector-Emitter Voltage: V_{CES} = 30V * Collector Power Dissipation: P_{C(MAX)} = 1W



ORDERING INFORMATION

Ordering Number		Daalaasa	Pin Assignment			Dealing	
Lead Free	Halogen Free	Package	1	2	3	Packing	
PZTA14L-AA3-R	PZTA14G-AA3-R	SOT-223	В	С	Е	Tape Reel	



www.unisonic.com.tw 1 of 2 QW-R207-004, D

■ ABSOLUTE MAXIMUM RATING (T_A=25°C)

PARAMETER	SYMBOL	RATINGS	UNIT
Collector-Base Voltage	V_{CBO}	30	V
Collector-Emitter Voltage	V_{CES}	30	V
Emitter-Base Voltage	V_{EBO}	10	V
Collector Power Dissipation	Pc	1	W
Collector Current	Ic	500	mA
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-Emitter Breakdown Voltage	BV _{CES}	$I_{C}=100\mu A, I_{B}=0$	30			V
Collector Cut-Off Current	I _{CBO}	V_{CB} =30 V , I_E =0			100	nA
Emitter Cut-Off Current	I _{EBO}	V _{EB} =10V, I _C =0			100	nA
DC Current Gain	h _{FE}	V _{CE} =5V, I _C =100mA	20000			
Collector-Emitter Saturation Voltage	V _{CE(SAT)}	I _C =100mA, I _B =0.1mA			1.5	V
Base-Emitter on Voltage	$V_{BE(ON)}$	V _{CE} =5V, I _C =100mA			2.0	V
Current Gain Bandwidth Product	f _T	V _{CE} =5V, I _C =10mA, f=100MHz	125			MHz

Pulse test: Pulse Width<300µs, Duty Cycle=2%

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