



PZTA14

NPN SILICON TRANSISTOR

DARLINGTON TRANSISTOR

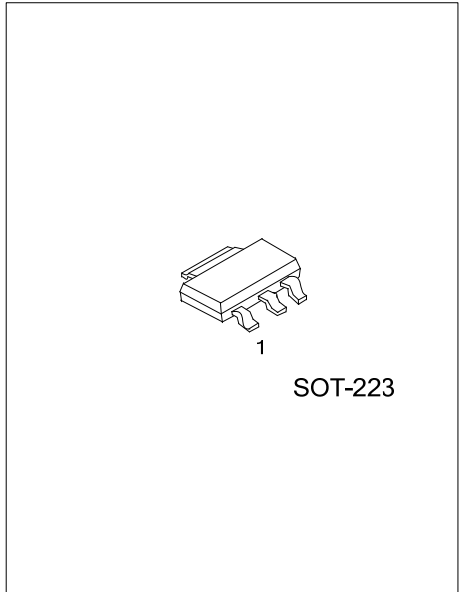
DESCRIPTION

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		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
PZTA14L-AA3-R	PZTA14G-AA3-R	SOT-223	B	C	E	Tape Reel

<p>PZTA14L-AA3-R</p> <p>(1) Packing Type (2) Package Type (3) Lead Free</p>	<p>(1) R: Tape Reel (2) AA3: SOT-223 (3) G: Halogen Free, L: Lead Free</p>
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■ 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	P _C	1	W
Collector Current	I _C	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 =100μA, I _B =0	30			V
Collector Cut-Off Current	I _{CBO}	V _{CB} =30V, 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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