# UTC PZTA14 NPN EPITAXIAL SILICON TRANSISTOR

### **DARLINGTON TRANSISTOR**

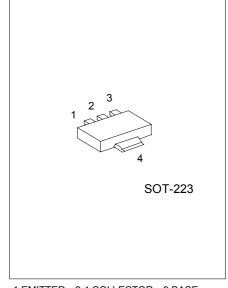
#### **DESCRIPTION**

The UTC PZTA14 is a Darlington transistor.

#### **FEATURES**

\*Collector-Emitter Voltage: VcEs = 30V

\*Collector Power Dissipation: Pc (max) = 1000 mW



1:EMITTER 2,4:COLLECTOR 3:BASE

### ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

PARAMETER	SYMBOL	VALUE	UNIT	
Collector-Base Voltage	Vсво	30	V	
Collector-Emitter Voltage	VCES	30	V	
Emitter-Base Voltage	VEBO	10	V	
Collector Power Dissipation	Pc	1000	mW	
Collector Current	lc	500	mA	
Junction Temperature	Tj	150	°C	
Storage Temperature	Tstg	-55 ~ <b>+</b> 150	°C	

### ELECTRICAL CHARACTERISTICS (Ta =25°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
Collector-Emitter Breakdown Voltage	BVces	Ic=100μA,Iв=0	30		V
Collector Cut-Off Current	Ісво	Vcb=30V,IE=0		100	nA
Emitter Cut-Off Current	IEBO	VEB=10V,Ic=0		100	nA
DC Current Gain	hFE	Vce=5V,lc=100mA	20000		
Collector-Emitter Saturation Voltage	Vce(sat)	Ic=100mA,IB=0.1mA		1.5	V
Base-Emitter on Voltage	VBE(on)	Vce=5V,lc=100mA		2.0	V
Current Gain Bandwidth Product	f⊤	Vce=5V,lc=10mA,	125		MHz
		f=100MHz			

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

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