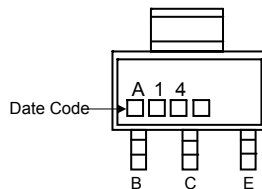
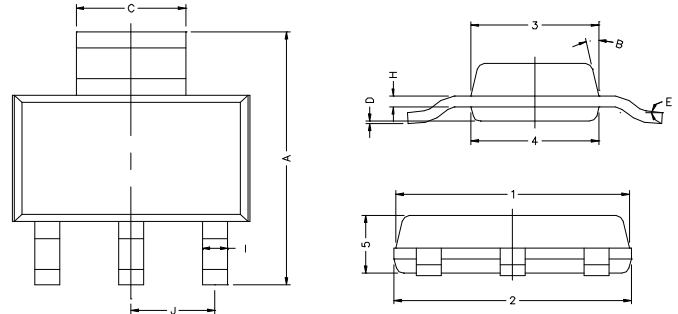


Description

The PZTA14 is darlington amplifier transistor designed for applications requiring extremely high current gain.

SOT-223



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	6.70	7.30	B	13 TYP.	
C	2.90	3.10	J	2.30 REF.	
D	0.02	0.10	1	6.30	6.70
E	0°	10°	2	6.30	6.70
I	0.60	0.80	3	3.30	3.70
H	0.25	0.35	4	3.30	3.70
			5	1.40	1.80

ABSOLUTE MAXIMUM RATINGS $T_a=25^{\circ}\text{C}$

Symbol	Parameter	Value	Units
V_{CB0}	Collector-Base Voltage	30	V
V_{CE0}	Collector-Emitter Voltage	30	V
V_{EB0}	Emitter-Base Voltage	10	V
I_C	Collector Current	300	mA
P_D	Total Power Dissipation	2	W
T_J, T_{stg}	Junction and Storage Temperature	-55~+150	$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS $T_{amb}=25^{\circ}\text{C}$ unless otherwise specified

Parameter	Symbol	Min	Typ.	Max	Unit	Test Conditions
Collector-Base Breakdown Voltage	BV_{CB0}	30	-	-	V	$I_C = 100\mu\text{A}$
Collector-Emitter Breakdown Voltage	BV_{CE0}	30	-	-	V	$I_C = 1\text{mA}$
Emitter-Base Breakdown Voltage	BV_{EB0}	10	-	-	V	$I_E = 10\mu\text{A}$
Collector-Base Cutoff Current	I_{CB0}	-	-	100	nA	$V_{CB} = 30\text{V}$
Emitter-Base Cutoff Current	I_{EB0}	-	-	100	nA	$V_{EB} = 10\text{V}$
Collector Saturation Voltage	$V_{CE(sat)}$	-	-	1.5	V	$I_C = 100\text{mA}, I_B = 0.1\text{mA}$
Base Saturation Voltage	$V_{BE(on)}$	-	-	2	V	$V_{CE} = 5\text{V}, I_C = 100\text{mA}$
DC Current Gain	h_{FE1}	10K	-	-		$V_{CE} = 5\text{V}, I_C = 10\text{mA}$
	h_{FE2}	20K	-	-		$V_{CE} = 5\text{V}, I_C = 100\text{mA}$
Gain-Bandwidth Product	f_T	125	-	-	MHz	$V_{CE} = 5\text{V}, I_C = 10\text{mA}, f = 100\text{MHz}$

Characteristics Curve

