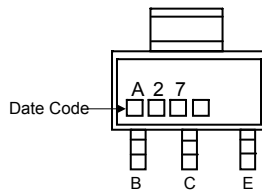
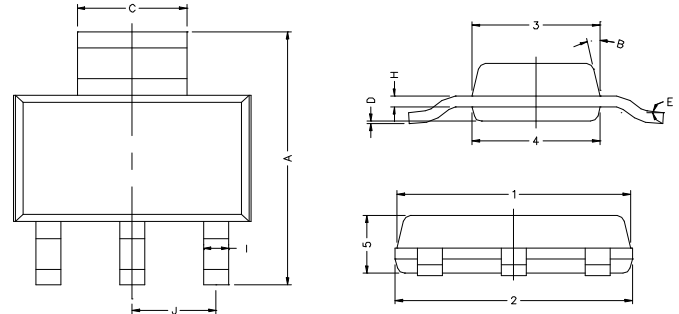


RoHS Compliant Product

## Description

The PZTA27 is designed for darlington amplifier high current gain collector current to 500mA.

### 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	60	V
$V_{CE0}$	Collector-Emitter Voltage	60	V
$V_{EB0}$	Emitter-Base Voltage	10	V
$I_C$	Collector Current	500	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	$BV_{CB0}$	60	-	-	V	$I_C=100\mu\text{A}, I_E=0$
Collector-Emitter Breakdown Voltage	$BV_{CES}$	60	-	-	V	$I_C=100\mu\text{A}, V_{BE}=0$
Emitter-Base Breakdown Voltage	$BV_{EBO}$	10	-	-	V	$I_E=10\mu\text{A}, I_C=0$
Collector-Base Cutoff Current	$I_{CB0}$	-	-	100	nA	$V_{CB}=50\text{V}, I_E=0$
Emitter-Base Cutoff Current	$I_{EBO}$	-	-	100	nA	$V_{EB}=10\text{V}, I_C=0$
Collector-Base Cutoff Current	$I_{CES}$	-	-	500	nA	$V_{CE}=50\text{V}$
Collector Saturation Voltage	$V_{CE(sat)}$	-	-	1.5	V	$I_C=100\text{mA}, I_B=0.1\text{mA}$
Base Saturation Voltage	$V_{BE(sat)}$	-	-	2	V	$I_C=100\text{mA}, V_{CE}=5\text{V}$
DC Current Gain	$h_{FE1}$	10K	-	-		$V_{CE}=5\text{V}, I_C=10\text{mA}$
	$h_{FE2}$	10K	-	-		$V_{CE}=5\text{V}, I_C=100\text{mA}$

**Characteristics Curve**

