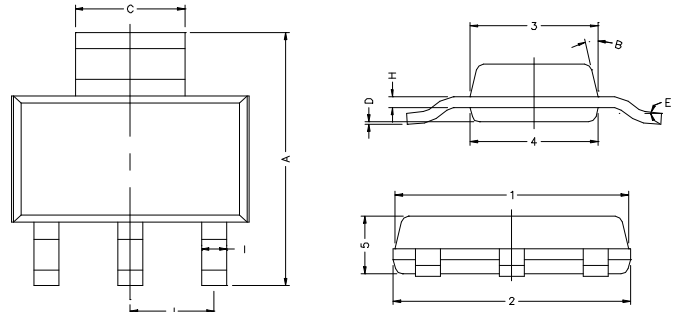
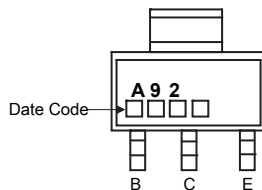


SOT-223

Description

The PZTA92 is designed for application as a video output to drive color CRT, or as a dialer circuit in electronics telephone.



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	-300	V
V_{CE0}	Collector-Emitter Voltage	-300	V
V_{EB0}	Emitter-Base Voltage	-5	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}	-300	-	-	V	$I_C=-100\mu\text{A}, I_E=0$
Collector-Emitter Breakdown Voltage	BV_{CE0}	-300	-	-	V	$I_C=-1\text{mA}, I_B=0$
Emitter-Base Breakdown Voltage	BV_{EB0}	-5	-	-	V	$I_E=-100\mu\text{A}, I_C=0$
Collector-Base Cutoff Current	I_{CBO}	-	-	-250	nA	$V_{CB}=-200\text{V}, I_E=0$
Emitter-Base Cutoff Current	I_{EBO}	-	-	-100	nA	$V_{BE}=-3\text{V}$
Collector Saturation Voltage	$V_{CE(sat)}$	-	-	-500	mV	$I_C=-20\text{mA}, I_B=-2\text{mA}$
Base Saturation Voltage	$V_{BE(sat)}$	-	-	-900	mV	$I_C=-20\text{mA}, I_B=-2\text{mA}$
DC Current Gain	h_{FE1}	25	-	-		$V_{CE}=-10\text{V}, I_C=-1\text{mA}$
	h_{FE2}	40	-	-		$V_{CE}=-10\text{V}, I_C=-10\text{mA}$
	h_{FE3}	25	-	-		$V_{CE}=-10\text{V}, I_C=-30\text{mA}$
Gain-Bandwidth Product	f_T	50	-	-	MHz	$V_{CE}=-20\text{V}, I_C=-10\text{mA}, f=100\text{MHz}$
Output Capacitance	C_{ob}	-	-	6	pF	$V_{CB}=-20\text{V}, f=1\text{MHz}$

Characteristics Curve

