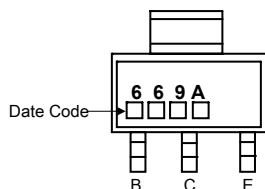
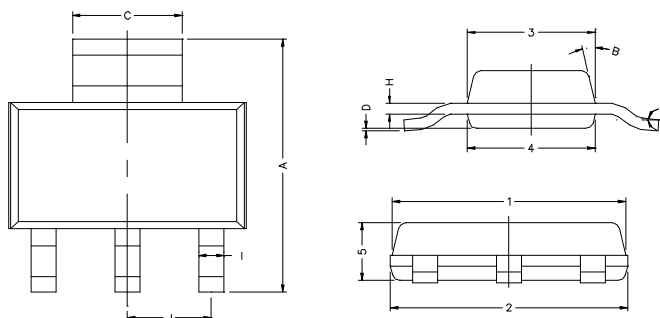


RoHS Compliant Product

**SOT-223**

**Description**

The PZT669A is designed for low frequency power amplifier complementary pair with PZT649A.



REF.	Min.		Max.		REF.	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 at TA=25°C**

Parameter	Symbol	Ratings	Unit
Collector to Base Voltage	V <sub>CB0</sub>	180	V
Collector to Emitter Voltage	V <sub>CEO</sub>	160	V
Emitter to Base Voltage	V <sub>EBO</sub>	5.0	V
Collect Current (DC)	I <sub>c</sub>	1.5	A
Collect Current (Pulse)	I <sub>c</sub>	3.0	A
Total Power Dissipation	P <sub>D</sub>	1.5	W
Operating Junction and Storage Temperature Range	T <sub>J</sub> , T <sub>stg</sub>	-55~+150	°C

**ELECTRICAL CHARACTERISTICS (Tamb=25°C)**

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Collector-Base Breakdown Voltage	BV <sub>CB0</sub>	180	-	-	V	I <sub>c</sub> =-1mA, I <sub>E</sub> =0
Collector-Emitter Breakdown Voltage	BV <sub>CEO</sub>	160	-	-	V	I <sub>c</sub> =-10mA, I <sub>B</sub> =0
Emitter-Base Breakdown Voltage	BV <sub>EBO</sub>	5	-	-	V	I <sub>E</sub> =1mA, I <sub>C</sub> =0
Collector Cut-off Current	I <sub>CB0</sub>	-	-	10	uA	V <sub>CB</sub> =160V, I <sub>E</sub> =0
Collector Output Capacitance	C <sub>ob</sub>	-	14	-	pF	V <sub>CB</sub> =10V, f=1MHz
Collector-Emitter Saturation Voltage	*V <sub>CE(sat)</sub>	-	-	1	V	I <sub>c</sub> =600mA, I <sub>B</sub> =50mA
Base-Emitter Voltage, On	*V <sub>BE(on)</sub>	-	-	1.5	V	V <sub>CE</sub> =5V, I <sub>C</sub> =150mA
DC Current Gain	*h <sub>FE1</sub>	60	-	200		V <sub>CE</sub> =5V, I <sub>C</sub> =150mA
DC Current Gain	*h <sub>FE2</sub>	30	-	-		V <sub>CE</sub> =5V, I <sub>C</sub> =500mA
Transition Frequency	f <sub>T</sub>	-	140	-	MHz	V <sub>CE</sub> =5V, I <sub>C</sub> =10mA, f=100MHz

\*Pulse Test: Pulse Width ≤ 380us, Duty Cycle ≤ 2%

**CLASSIFICATION OF hFE1**

Rank	B	C
hFE1	60~120	100~200

**Characteristics Curve**

