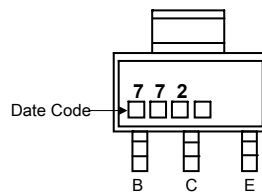
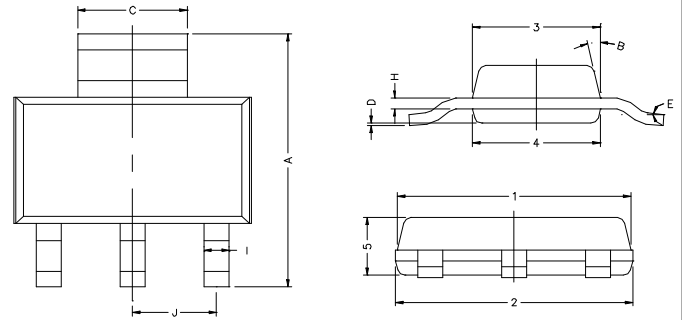


RoHS Compliant Product

**SOT-223**

## Description

The PZT772 is designed for using in output stage of 2W amplifier, voltage regulator, DC-DC converter and driver.



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

### MAXIMUM RATINGS\* (T<sub>amb</sub>=25°C, unless otherwise specified)

Symbol	Parameter	Value	Units
V <sub>CB0</sub>	Collector-Base Voltage	-40	V
V <sub>CEO</sub>	Collector-Emitter Voltage	-30	V
V <sub>EBO</sub>	Emitter-Base Voltage	-5	V
I <sub>C</sub>	Collector Current-Continuous	-3	A
P <sub>D</sub>	Total Power Dissipation	1.5	W
T <sub>J</sub> , T <sub>stg</sub>	Junction and Storage Temperature	-55~-150	°C

### ELECTRICAL CHARACTERISTICS T<sub>amb</sub>=25°C unless otherwise specified

Parameter	Symbol	MIN	TYP	MAX	UNIT	Test conditions
Collector-base breakdown voltage	V(BR) <sub>CB0</sub>	-40	-	-	V	I <sub>C</sub> =-100uA
Collector-emitter breakdown voltage	V(BR) <sub>CEO</sub>	-30	-	-	V	I <sub>C</sub> = -10 mA
Emitter-base breakdown voltage	V(BR) <sub>EBO</sub>	-5	-	-	V	I <sub>E</sub> = -10uA
Collector cut-off current	I <sub>CB0</sub>	-	-	-1	uA	V <sub>CB</sub> = -30 V
Emitter cut-off current	I <sub>EBO</sub>	-	-	1	uA	V <sub>EB</sub> =-3V
DC current gain	h <sub>FE 1</sub>	30	-	-	-	V <sub>CE</sub> = -2V, I <sub>C</sub> = -20mA
	h <sub>FE 2</sub>	100	160	500	-	V <sub>CE</sub> =-2V, I <sub>C</sub> = -1mA
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	-	-0.3	-0.5	V	I <sub>C</sub> =-2A, I <sub>B</sub> = -0.2A
Base-emitter saturation voltage	V <sub>BE(sat)</sub>	-	-1	-2	V	I <sub>C</sub> =-2A, I <sub>B</sub> = -0.2A
Transition frequency	f <sub>T</sub>	-	80	-	MHz	V <sub>CE</sub> =-20V, I <sub>C</sub> =-20mA, f = 100MHz
Collector output capacitance	C <sub>ob</sub>	-	55	-	pF	V <sub>CB</sub> =-10V, f=1MHz

### CLASSIFICATION OF h<sub>FE2</sub>

Rank	Q	P	E
Range	100-200	160-320	250-500

RATING AND CHARACTERISTIC CURVES

