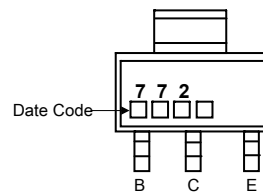
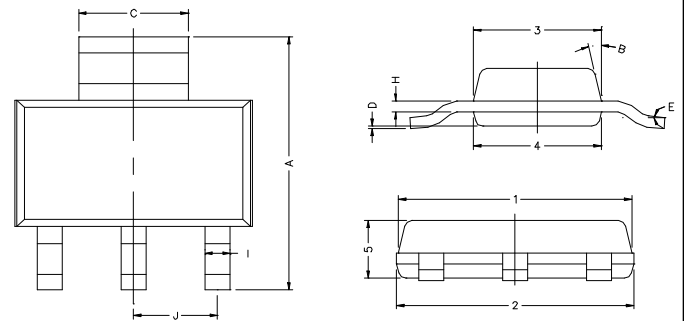


RoHS Compliant Product

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* ($T_{amb}=25^{\circ}\text{C}$, unless otherwise specified)

Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage	-40	V
V_{CEO}	Collector-Emitter Voltage	-30	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-3	A
P_D	Total Power Dissipation	1.5	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	$V_{(BR)CBO}$	-40	—	—	V	$I_C = -100\mu\text{A}$
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	-30	—	—	V	$I_C = -10\text{ mA}$
Emitter-base breakdown voltage	$V_{(BR)EBO}$	-5	—	—	V	$I_E = -10\mu\text{A}$
Collector cut-off current	I_{CBO}	—	—	-1	μA	$V_{CB} = -30\text{ V}$
Emitter cut-off current	I_{EBO}	—	—	1	μA	$V_{EB} = -3\text{ V}$
DC current gain	h_{FE1}	30	—	—	—	$V_{CE} = -2\text{ V}, I_C = -20\text{ mA}$
	h_{FE2}	100	160	500	—	$V_{CE} = -2\text{ V}, I_C = -1\text{ mA}$
Collector-emitter saturation voltage	$V_{CE(sat)}$	—	-0.3	-0.5	V	$I_C = -2\text{ A}, I_B = -0.2\text{ A}$
Base-emitter saturation voltage	$V_{BE(sat)}$	—	-1	-2	V	$I_C = -2\text{ A}, I_B = -0.2\text{ A}$
Transition frequency	f_T	—	80	—	MHz	$V_{CE} = -20\text{ V}, I_C = -20\text{ mA}, f = 100\text{ MHz}$
Collector output capacitance	C_{ob}	—	55	—	pF	$V_{CB} = -10\text{ V}, f = 1\text{ MHz}$

CLASSIFICATION OF h_{FE2}

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

RATING AND CHARACTERISTIC CURVES

