

RoHS Compliant Product

SOT-223

Description

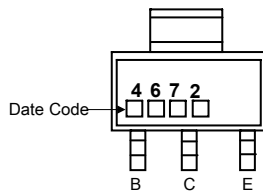
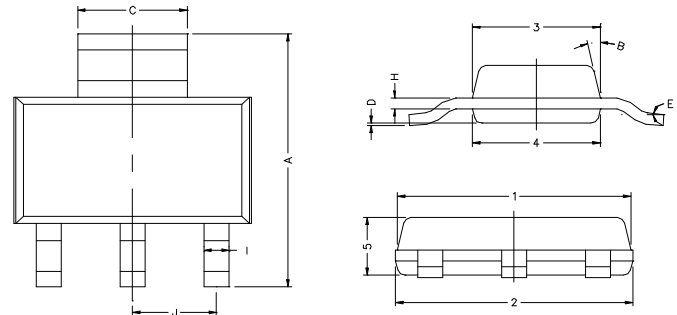
The PZT4672 is designed for low frequency amplifier applications.

Features

*Excellent DC Current Gain Characteristic

*Low Saturation Voltage, Typically

$V_{CE(sat)}=0.1V$ at $I_C/I_B=1A/50mA$



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 $T_a=25^{\circ}C$

Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage	60	V
V_{CEO}	Collector-Emitter Voltage	50	V
V_{EBO}	Emitter-Base Voltage	6	V
I_C	Collector Current (DC)	2	A
	Collector Current (Pulse PW=10ms)	5	
P_D	Total Power Dissipation	2	W
T_J, T_{stg}	Junction and Storage Temperature	-55~+150	°C

ELECTRICAL CHARACTERISTICS $T_{amb}=25^{\circ}C$ unless otherwise specified

Parameter	Symbol	Min	Typ.	Max	Unit	Test Conditions
Collector-Base Breakdown Voltage	BV_{CBO}	60	-	-	V	$I_C=50\mu A, I_E=0$
Collector-Emitter Breakdown Voltage	* BV_{CEO}	50	-	-	V	$I_C=1mA, I_B=0$
Emitter-Base Breakdown Voltage	BV_{EBO}	6	-	-	V	$I_E=50\mu A, I_C=0$
Collector-Base Cutoff Current	I_{CBO}	-	-	100	nA	$V_{CB}=60V, I_E=0$
Emitter-Base Cutoff Current	I_{EBO}	-	-	100	nA	$V_{EB}=5V, I_C=0$
Collector Saturation Voltage	* $V_{CE(sat)}$	-	0.1	0.35	V	$I_C=1A, I_B=50mA$
DC Current Gain	* h_{FE}	120	-	400		$V_{CE}=2V, I_C=500mA$
Gain-Bandwidth Product	fT	-	210	-	MHz	$V_{CE}=2V, I_C=500mA, f=100MHz$
Output Capacitance	C_{ob}	-	25	-	pF	$V_{CB}=10V, f=1MHz, I_E=0$

*Pulse width $\leq 380\mu s$, Duty Cycle $\leq 2\%$

Classification of h_{FE}

Rank	A	B
Range	120~240	200~400

Characteristics Curve

