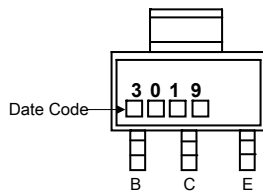
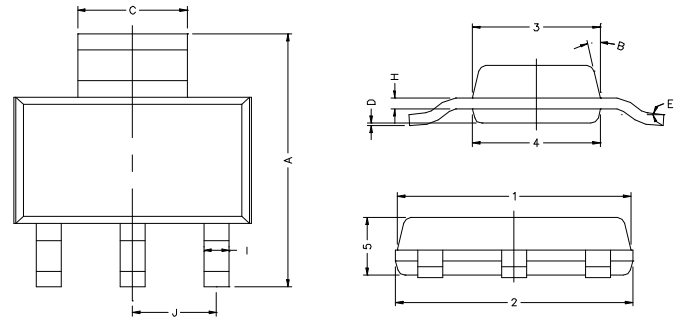


RoHS Compliant Product

SOT-223

Description

The PZT3019 is designed for general purpose amplifier applications and switching requiring collector currents 1A.



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 Ta=25°C

Symbol	Parameter	Value	Units
V _{CB0}	Collector-Base Voltage	140	V
V _{CEO}	Collector-Emitter Voltage	80	V
V _{EB0}	Emitter-Base Voltage	7	V
I _C	Collector Current	1	A
P _D	Total Power Dissipation	2	W
T _J , T _{stg}	Junction and Storage Temperature	-55~+150	°C

ELECTRICAL CHARACTERISTICS Tamb=25°C unless otherwise specified

Parameter	Symbol	Min	Typ.	Max	Unit	Test Conditions
Collector-Base Breakdown Voltage	BV _{CB0}	140	-	-	V	I _C =100μA
Collector-Emitter Breakdown Voltage	BV _{CEO}	80	-	-	V	I _C =30mA
Emitter-Base Breakdown Voltage	BV _{EB0}	7	-	-	V	I _E =100μA
Collector-Base Cutoff Current	I _{CB0}	-	-	50	nA	V _{CB} = 90V
Emitter-Base Cutoff Current	I _{EB0}	-	-	50	nA	V _{EB} =5V
Collector Saturation Voltage	V _{CE(sat)}	-	-	0.2	V	I _C =150mA, I _B =15mA
Base Saturation Voltage	V _{BE(sat)}	-	-	1.1	V	I _C = 150mA, I _B =15mA
DC Current Gain	h _{FE1}	50	-	-		V _{CE} = 10V, I _C =0.1mA
	h _{FE2}	90	-	-		V _{CE} = 10V, I _C =10mA
	h _{FE3}	100	-	300		V _{CE} = 10V, I _C =150mA
	h _{FE4}	50	-	-		V _{CE} = 10V, I _C =500mA
	h _{FE5}	15	-	-		V _{CE} = 10V, I _C =1000mA
Gain-Bandwidth Product	f _T	100	-	-	MHz	V _{CE} = 50mV, I _C = 50mA, f=100MHz
Output Capacitance	C _{ob}	-	-	12	pF	V _{CB} = 10V, f=1MHz, I _E =0