Elektronische Bauelemente

PZT2907A

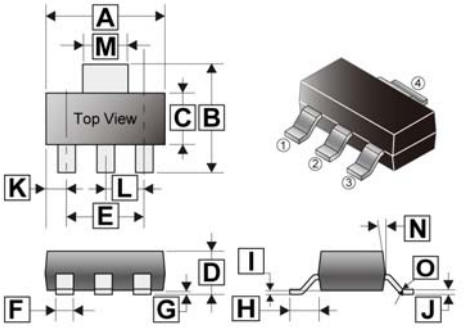
PNP Silicon
Silicon Planar Medium Power Transistor

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

SOT-223

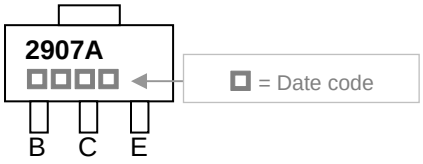
DESCRIPTION

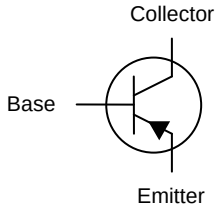
- The PZT2907A is designed for general purpose amplifier and high-speed switching, medium power switching applications.



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	6.30	6.70	G	0.02	0.10
B	6.70	7.30	H	1.50	2.00
C	3.30	3.70	J	0.25	0.35
D	1.42	1.90	K	0.85	1.05
E	4.60 REF.		L	2.30 REF.	
F	0.60	0.80	M	2.90	3.10
I	0.02	0.10	N	13 TYP.	
O	0°	10°			

MARKING





MAXIMUM RATINGS (T_A=25 °C, unless otherwise specified)

Parameter	Symbol	Value	Unit
Collector to Base Voltage	V_{CBO}	-60	V
Collector to Emitter Voltage	V_{CEO}	-60	V
Emitter to Base Voltage	V_{EBO}	-5	V
Collector Current	I_C	-600	mA
Total Power Dissipation	P_D	1.5	W
Junction, Storage Temperature	T_J, T_{STG}	+150, -55 ~ +150	℃

ELECTRICALCHARACTERISTICS (T_A=25 °C unless otherwise specified)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Collector - Base Breakdown Voltage	$V_{(BR)CBO}$	-60	-	-	V	I_C = -10uA
Collector - Emitter Breakdown Voltage	$V_{(BR)CEO}$	-60	-	-	V	I_C = -10mA
Emitter - Base Breakdown Voltage	$V_{(BR)EBO}$	-5	-	-	V	I_C = -10uA
Collector Cut - Off Current	I_{CBO}	-	-	-10	nA	V_{CB} = -50V
Emitter Cut - Off Current	I_{CEX}	-	-	-50	nA	V_{CE}= -30V, V_{BE} = -0.5V
Collector - Emitter Saturation Voltage	$V_{CE(sat)1}$	-	-0.2	-0.4	V	I_C = -150mA, I_B = -15mA
	$V_{CE(sat)2}$	-	-0.5	-1.6	V	I_C = -500mA, I_B = -50mA
Base - Emitter Voltage	$V_{BE(sat)}$	-	-	-1.3	V	I_C = -150mA, I_B = -15mA
	$V_{BE(sat)}$	-	-	-2.6	V	I_C = -500mA, I_B = -50mA
DC Current Gain	h_{FE1}	75	-	-		V_{CE} = -10V, I_C = -100 uA
	h_{FE2}	100	-	-		V_{CE} = -10V, I_C = -1mA
	h_{FE3}	100	-	-		V_{CE} = -10V, I_C = -10mA
	h_{FE4}	100	180	300		V_{CE} = -10V, I_C = -150mA
	h_{FE5}	50	-	-		V_{CE} = -10V, I_C = -500mA
Transition Frequency	f_T	200	-	-	MHz	V_{CB} = -20V, I_C = -50mA, f =100 MHz
Collector Output Capacitance	C_{OB}	-	-	8	pF	V_{CB} = -10 V, f = 1 MHz

*Pulse Test：Pulse width ≦ 380 us, Duty cycle ≦ 2 %

CHARACTERISTIC CURVES