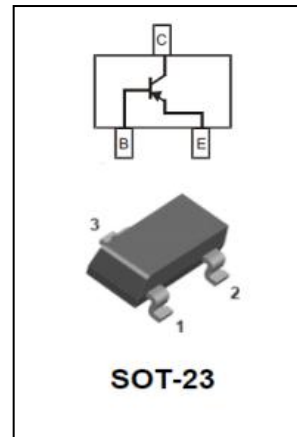


isc Silicon PNP Transistor
MMBT2907A
DESCRIPTION

- Low Voltage Use
- Ultra Super Mini Mold Package
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for use in low noise and small signal amplifiers from VHF band to UHF band


ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	-60	V
V _{CEO}	Collector-Emitter Voltage	-60	V
V _{EBO}	Emitter-Base Voltage	-5	V
I _C	Collector Current-Continuous	-0.6	A
P _C	Collector Power Dissipation @T _C =25°C	0.3	W
T _J	Junction Temperature	-55~150	°C
T _{stg}	Storage Temperature Range	-55~150	°C

ELECTRICAL CHARACTERISTICS

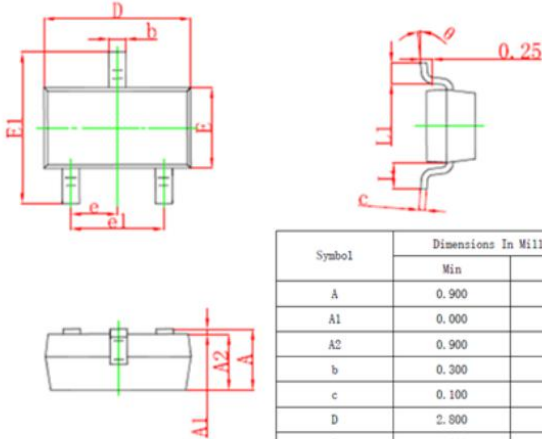
 T_C=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -10mA ; I _B = 0	-60			V
I _{CBO}	Collector Cutoff Current	V _{CE} = -50V ; I _E = 0			-0.1	μA
I _{CEX}	Collector Cutoff Current	V _{CE} = -30V ; V _{BE} =-0.5V			-0.05	μA
h _{FE}	DC Current Gain	I _C =-0.1mA ; V _{CE} = -10V	75			
		I _C =1mA ; V _{CE} = -10V	100			
		I _C =-10mA ; V _{CE} = -10V	100			
		I _C =-150mA ; V _{CE} = -10V	100		300	
		I _C =-500mA ; V _{CE} = -10V	50			
V _{CE(sat)-1}	Collector-Emitter Saturation Voltage	I _C = -150mA , I _B = -15mA			-0.4	V
V _{CE(sat)-2}	Collector-Emitter Saturation Voltage	I _C = -500mA , I _B = -50mA			-1.6	V
V _{BE(sat)-1}	Base-Emitter Saturation Voltage	I _C = -150mA , I _B = -15mA			-1.3	V
V _{BE(sat)-2}	Base-Emitter Saturation Voltage	I _C = -500mA , I _B = -50mA			-2.6	V

isc Silicon PNP Transistor

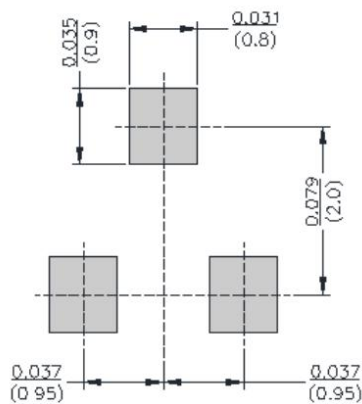
MMBT2907A

■SOT-23 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.100	0.200	0.004	0.008
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
e	0.950TYP		0.037TYP	
e1	1.800	2.000	0.071	0.079
L	0.550REF		0.022REF	
L1	0.300	0.500	0.012	0.020
ø	0°	8°	0°	8°

■SOT-23Suggested Pad Layout



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