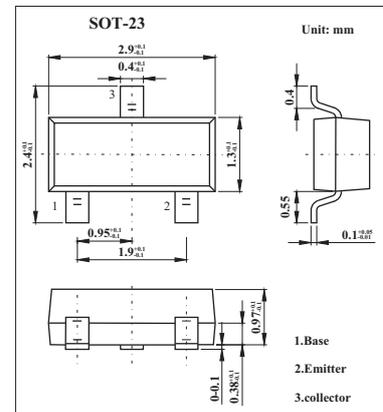


PNP General Purpose Amplifier

MMBT2907

■ Features

- Collector Current to Continuous : $I_c=-600\text{mA}$
- Power Dissipation : $P_D=250\text{mW}$



■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO}	-60	V
Collector-Emitter Voltage	V_{CEO}	-40	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current - Continuous	I_c	-600	mA
Total Device Dissipation	P_D	250	mW
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	500	$^\circ\text{C}/\text{W}$
Operating and Storage Junction Temperature Range	T_J, T_{stg}	-55 to +150	$^\circ\text{C}$

MMBT2907

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test conditons	Min	Max	Unit
Collector-Base Breakdown Voltage	V _{(BR)CBO}	I _C = -10 μA, I _E = 0	-60		V
Collector-Emitter Breakdown Voltage*	V _{(BR)CEO}	I _C = -10 mA, I _B = 0	-40		V
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	I _E = -10 μA, I _C = 0	-5		V
Collector cut-off current	I _{CBO}	V _{CB} = -50V I _E = 0		-100	nA
Emitter cut-off current	I _{EBO}	V _{CE} = -3V I _C = 0		-100	nA
DC Current Gain	h _{FE}	I _C = -0.1 mA, V _{CE} = -10 V	35		
		I _C = -1.0 mA, V _{CE} = -10 V	50		
		I _C = -10 mA, V _{CE} = -10 V	75		
		I _C = -150 mA, V _{CE} = -10 V	100	300	
		I _C = -500 mA, V _{CE} = -10 V	30		
Collector-Emitter Saturation Voltage*	V _{CE(sat)}	I _C = -150 mA, I _B = -15 mA		-0.4	V
		I _C = -500 mA, I _B = -50 mA		-1.6	V
Base-Emitter Saturation Voltage	V _{BE(sat)}	I _C = -150 mA, I _B = -15 mA		-1.3	V
		I _C = -500 mA, I _B = -50 mA		-2.6	V
Current Gain - Bandwidth Product	f _T	I _C = -50 mA, V _{CE} = -20 V, f = 100 MHz	200		MHz
Output Capacitance	C _{obo}	V _{CB} = -10 V, I _E = 0, f = 100 kHz		8.0	pF
Input Capacitance	C _{ibo}	V _{EB} = -2.0 V, I _C = 0, f = 100 kHz		30	pF
Turn-on Time	t _{on}	V _{CC} = -30 V, I _C = -150 mA, I _{B1} = -15 mA		45	ns
Delay Time	t _d			10	ns
Rise Time	t _r			40	ns
Turn-off Time	t _{off}	V _{CC} = -6.0 V, I _C = -150 mA, I _{B1} = I _{B2} = -15 mA		100	ns
Storage Time	t _s			80	ns
Fall Time	t _f			30	ns

■ Marking

Marking	M2B
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