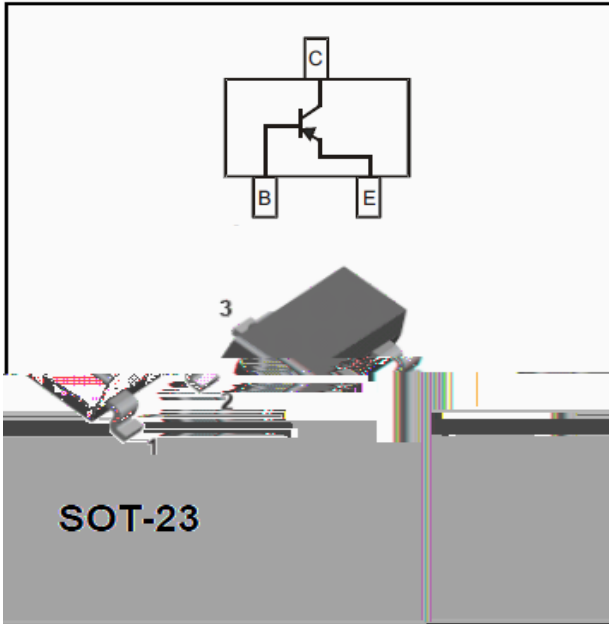


PNP General Purpose Amplifier



Features

- Epoxy meets UL-94 V-0 flammability rating
- Halogen free available upon request by adding suffix "HF"
- Moisture Sensitivity Level 1
- High Conductance
- Surface mount package ideally Suited for Automatic Insertion

Mechanical Data

- Package:** SOT-23
- Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Marking:** M2B

Maximum Ratings (Ta=25 unless otherwise noted)

Item	Symbol	Unit	Conditions	Value
Collector-Emitter Voltage	V_{ce}	V		- (0
Emitter-Base Voltage	V_{be}	V		-)
Collector Current	I_c	A		-0 " *
Collector Power Dissipation	P_c	W		0 " 2)
junction Temperature	T_j			-55 to +150
Storage Temperature	T_{stg}			-55 to +150



MMBT2907

RoHS
COMPLIANT

Electrical Characteristics $T_a=25$ Unless otherwise specified

Item	Symbol	Unit	Conditions	Min	Max
Collector-base breakdown voltage	V_{CBO}	V	$I_C=-10\mu A, I_E=0$	-60	
Collector-emitter breakdown voltage	V_{CEO}	V	$I_C=-10mA, I_B=0$	-40	
Emitter-base breakdown voltage	V_{EBO}	V	$I_E=-10\mu A, I_C=0$	-5	
Collector-base cut-off current	I_{CBO}	nA	$V_{CB}=-50V, I_E=0$		-20
Base cut-off current	I_{EBO}	nA	$V_{CE}=-3V, I_C=0$		-10
Collector-emitter cut-off current	I_{CEX}	nA	$V_{CE}=-30V, V_{BE}=-0.5V$		-50
DC current gain	h_{FE}		$V_{CE}=-10V, I_C=0.1mA$	52	
	h_{FE}		$V_{CE}=-10V, I_C=-150mA$	100	300
	h_{FE}		$V_{CE}=-10V, I_C=-500mA$	32	
Collector-emitter saturation voltage	$V_{CE(sat)}$	V	$I_C=-150mA, I_B=-15mA$		-0.4
Collector-emitter saturation voltage	$V_{CE(sat)}$	V	$I_C=-500mA, I_B=-50mA$		-0.67
Base-emitter saturation voltage	$V_{BE(sat)*}$	V	$I_C=-150mA, I_B=-15mA$		-1
Base-emitter saturation voltage	$V_{BE(sat)*}$	V	$I_C=-500mA, I_B=-50mA$		-1.2

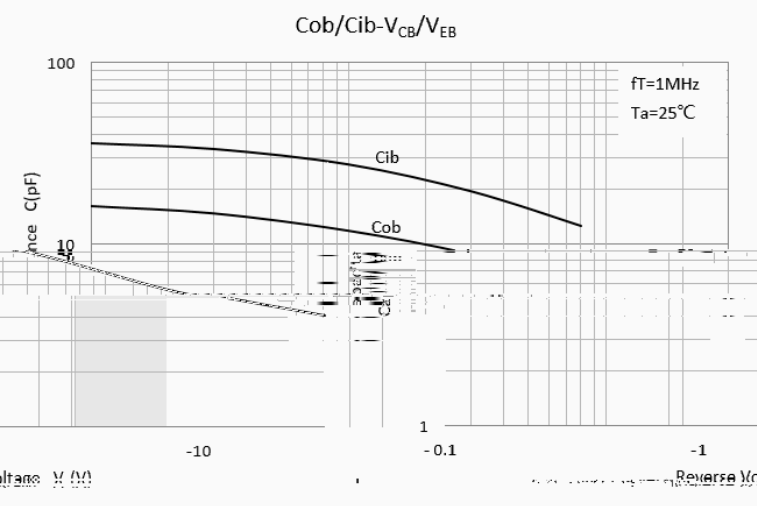
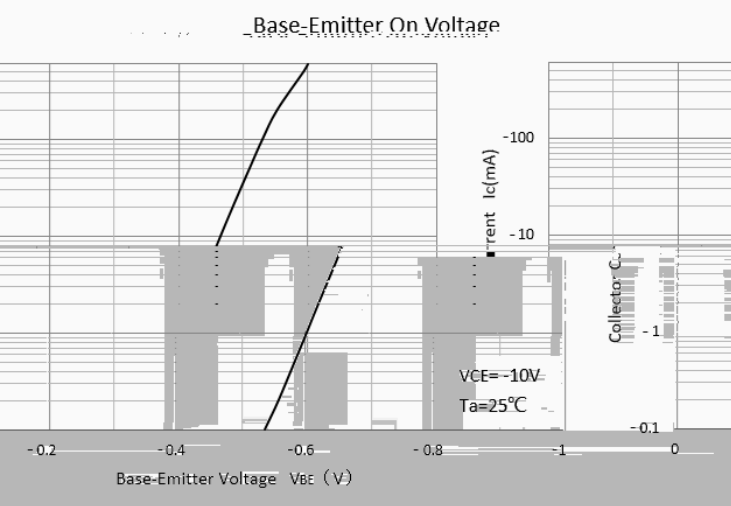
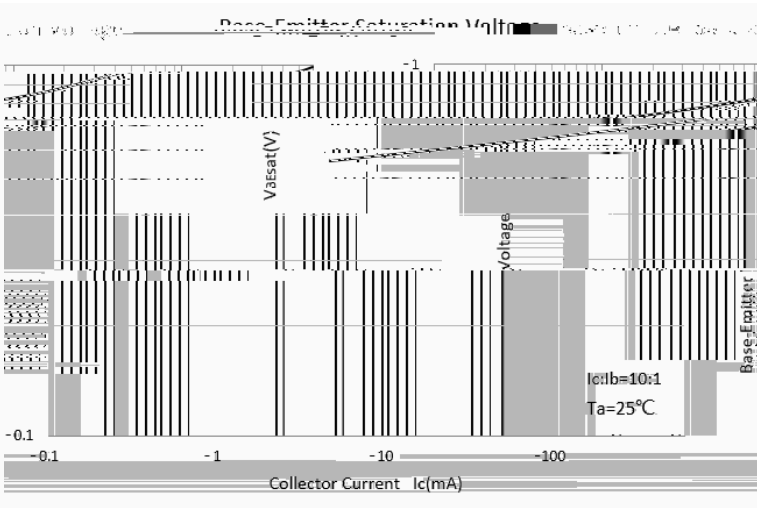
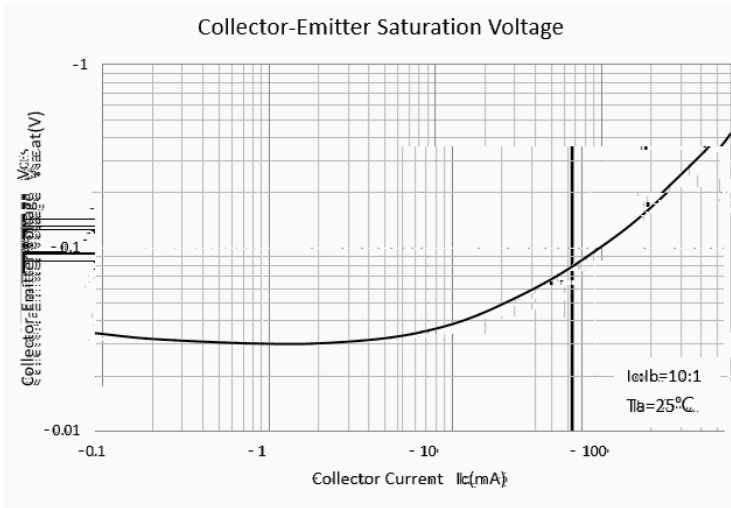
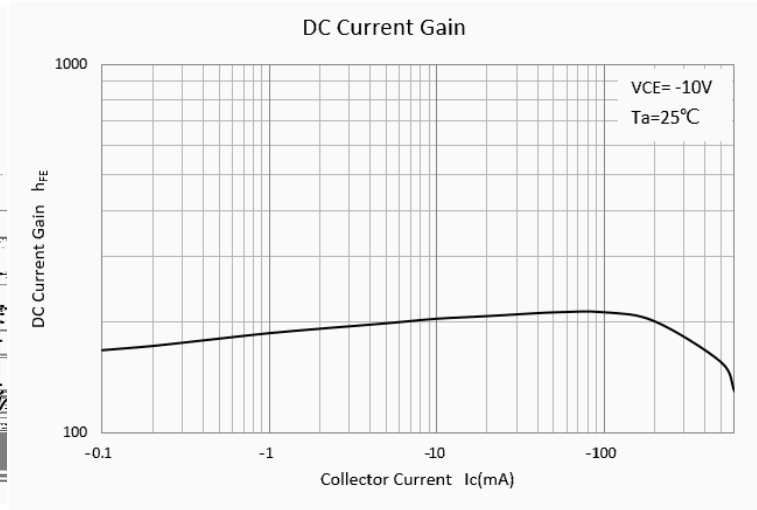
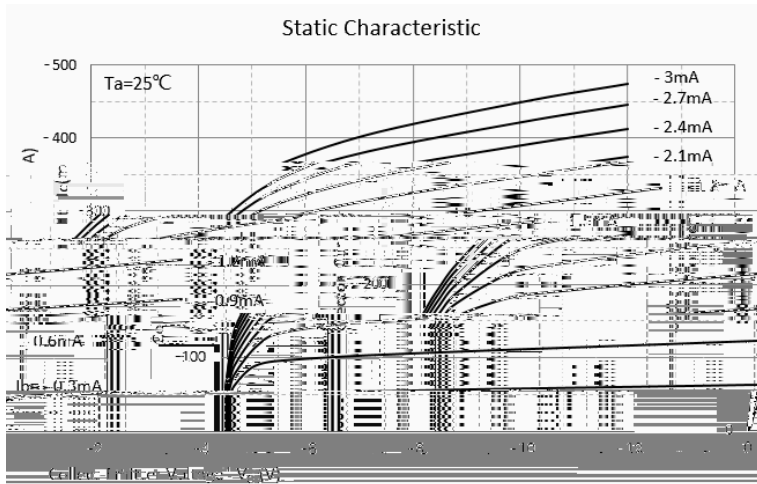
Electrical Characteristics $T_a=25$ Unless otherwise specified

Item	Symbol	Unit	Conditions	Min	Max
Transition frequency	F_t	MHz	$V_{CE}=-20V, I_C=-50mA, f=100MHz$	200	
Delay time	t_d	ns	$V_{CC}=-30V, I_C=-150mA, I_{B1}=-15mA$		10
Rise time	t_r	ns			
Storage time	t_s	ns	$V_{CC}=-6V, I_C=-150mA, I_{B1}=I_{B2}=-15mA$		225
Fall time	t_f	ns			

Ordering Information (Example)

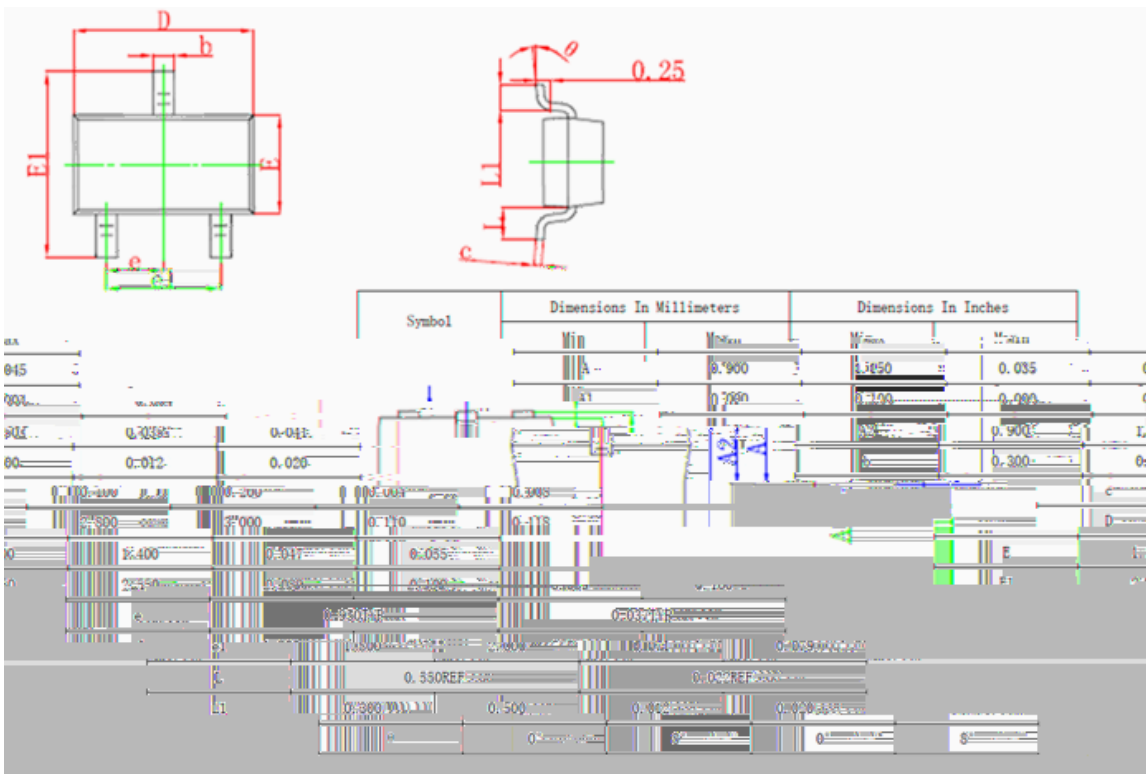
PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MMBT2907	F2	Approximate 0.008	3000	30000	120000	7" reel

Characteristics(Typical)





SOT-23 Package Outline Dimensions



SOT-23 Soldering Footprint

