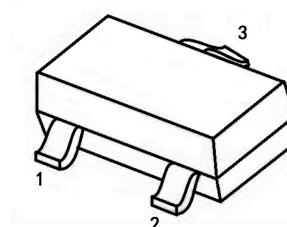
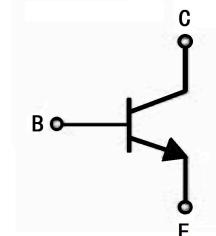


TRANSISTOR (NPN)**FEATURES**

- Complementary to MMBT3906

SOT-23

1: B
2: E
3: C

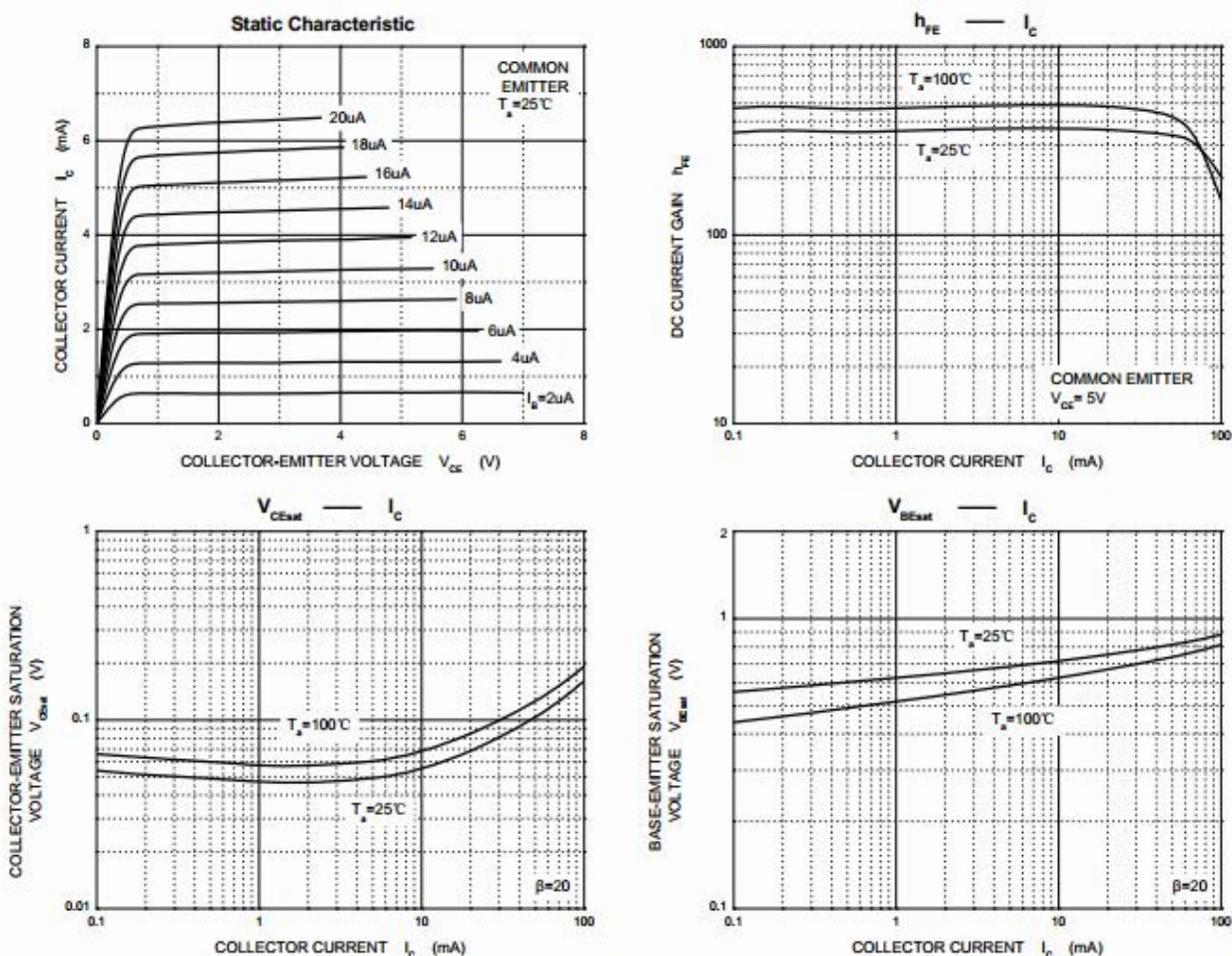
CIRCUIT DIAGRAM**MARKING : 1AM****MAXIMUM RATINGS (Ta=25°C unless otherwise noted)**

Parameter	Symbol	Value	Unit
Collector-Base Voltage	V _{CBO}	50	V
Collector-Emitter Voltage	V _{CEO}	45	V
Emitter-Base Voltage	V _{EBO}	5	V
Collector Current	I _{CM}	0.1	A
Power Dissipation	P _D	0.45	W
Junction Temperature	T _J	150	°C
Storage Temperature	T _{stg}	-55~150	°C

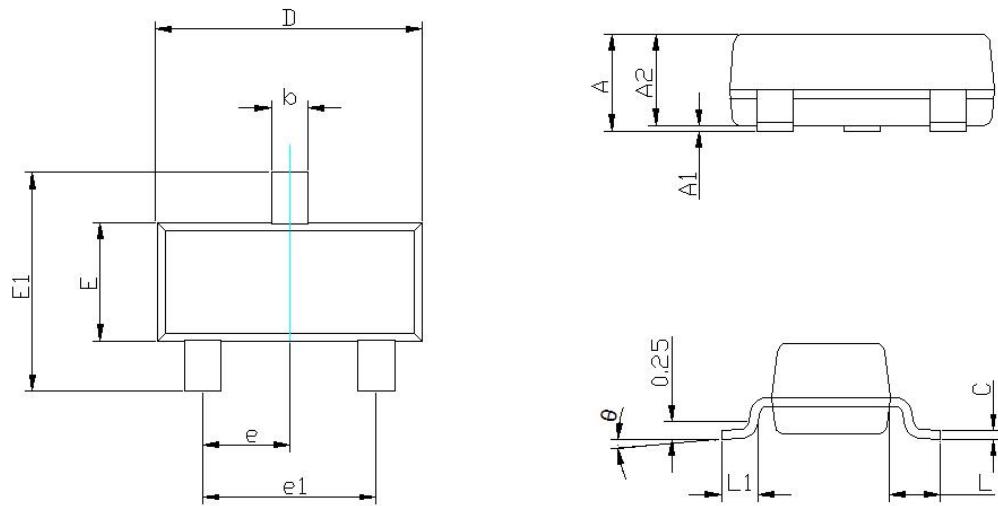
ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Max	Unit
Emitter-base breakdown voltage	BV _{EBO}	I _E =100uA, I _C =0	5		V
Collector-base breakdown voltage	BV _{CBO}	I _C =100uA, I _E =0	50		V
Collector-emitter breakdown voltage	BV _{CEO}	I _C =100uA, I _B =0	45		V
Emitter cut-off current	I _{EBO}	V _{EB} =5V, I _C =0		0.1	uA
Collector cut-off current	I _{CBO}	V _{CB} =50V, I _E =0		0.1	uA
Collector cut-off current	I _{CEO}	V _{CE} =45V, I _B =0		0.1	uA
Collector-emitter saturation voltage	V _{CESAT}	I _C =100mA, I _B =5mA		0.3	V
Base-emitter saturation voltage	V _{BESAT}	I _C =100mA, I _B =5mA		1.1	V
DC current gain	h _{FE}	V _{CE} =5V, I _C =1mA	100	300	
Transition frequency	f _T	V _{CE} =5V, I _C =10mA F=30MHZ	150		MHZ

TYPICAL CHARACTERISTICS



SOT-23 PACKAGE OUTLINE DRAWING



SYMBOL	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	0.900	1.15	0.035	0.045
A1	0.000	0.125	0.000	0.005
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.080	0.150	0.003	0.006
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	0.950 TYP		0.037 TYP	
e1	1.800	2.000	0.071	0.079
L	0.550 REF (0.4-0.6)		0.022 REF (0.016-0.024)	
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°