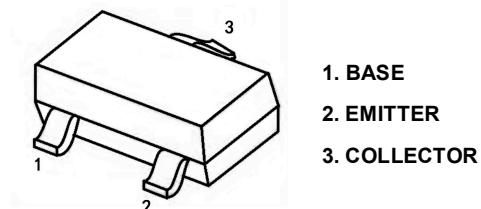
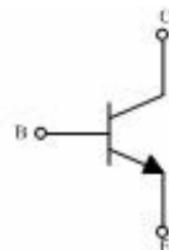


TRANSISTOR (NPN)

FEATURES

- High breakdown voltage
- Excellent current characteristics
- Low VCE(sat)
- Complimentary to S8550
- Collector Current: IC=0.5A

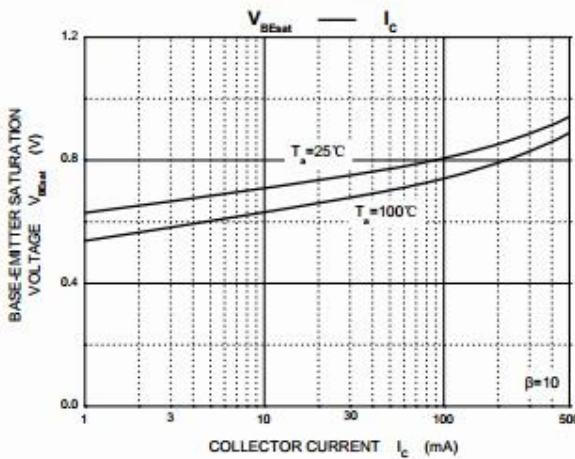
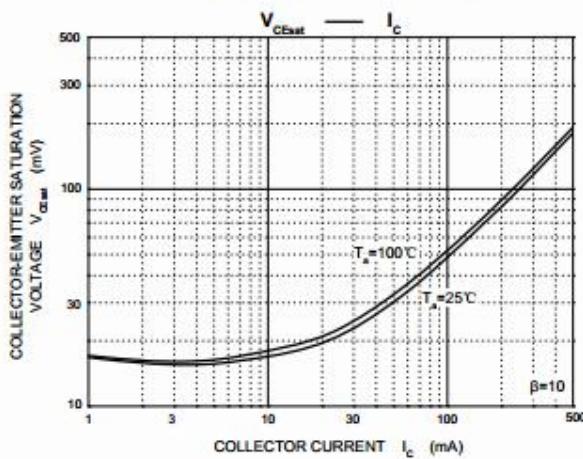
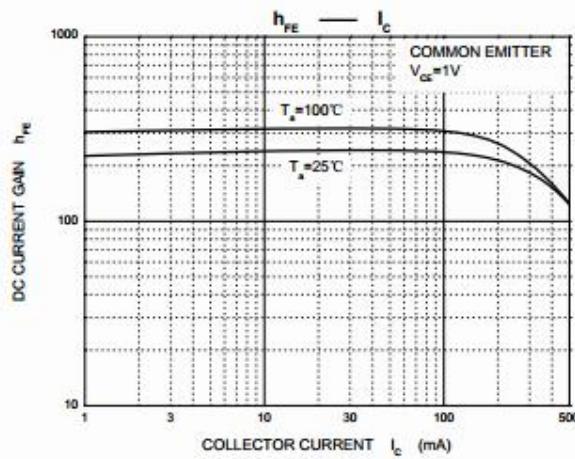
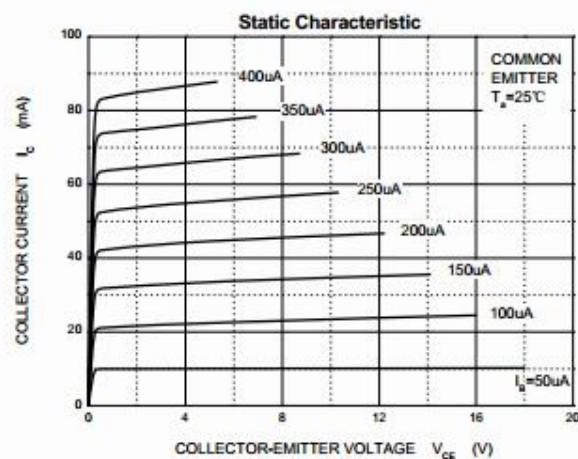
SOT-23**ELECTRICAL SYMBOL****MARKING: J3Y****MAXIMUM RATINGS (Ta=25°C unless otherwise noted)**

Parameter	Symbol	Value	Unit
Collector-Base Voltage	V _{CBO}	40	V
Collector-Emitter Voltage	V _{CEO}	25	V
Emitter-Base Voltage	V _{EBO}	5	V
Collector Current	I _{CM}	0.5	A
Power Dissipation	P _D	0.625	W
Junction Temperature	T _J	150	°C
Storage Temperature	T _{stg}	-55~150	°C

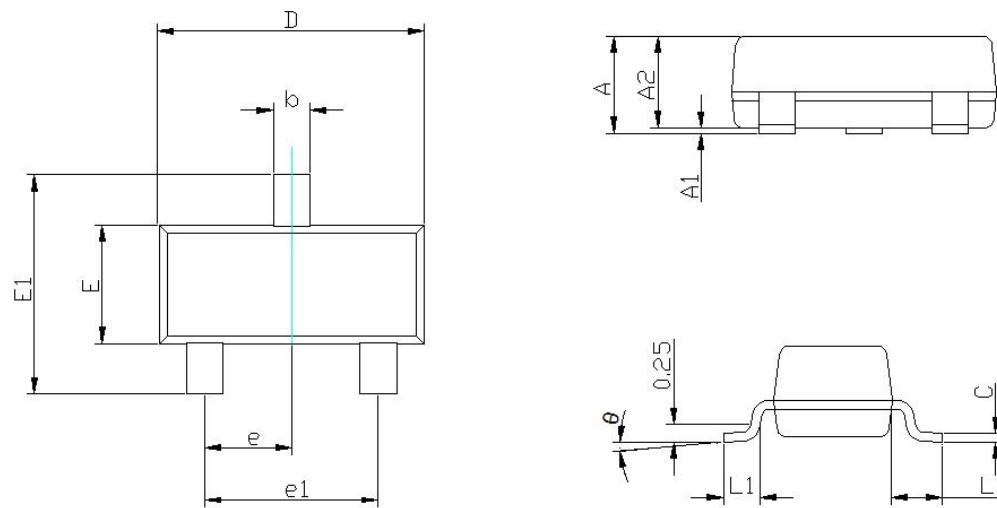
ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

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	40		V
Collector-emitter breakdown voltage	BV _{CEO}	I _C =1mA, I _B =0	25		V
Emitter cut-off current	I _{EBO}	V _{EB} =5V, I _C =0		0.1	uA
Collector cut-off current	I _{CBO}	V _{CB} =40V, I _E =0		0.1	uA
Collector cut-off current	I _{CEO}	V _{CE} =20V, I _B =0		0.1	uA
Collector-emitter saturation voltage	V _{CESAT}	I _C =500mA, I _B =50mA		0.6	V
Base-emitter saturation voltage	V _{BESAT}	I _C =500mA, I _B =50mA		1.2	V
DC current gain	h _{fe}	V _{CE} =1V, I _C =50mA	200	350	
Transition frequency	f _T	V _{CE} =6V, I _C =20mA F=30MHZ	150		MHZ

Typical Characteristics



SOT-23 Package Outline Dimensions



SYMBOL	MIN	MAX
A	0.900	1.15
A1	0.000	0.125
A2	0.900	1.050
b	0.300	0.500
c	0.080	0.150
D	2.800	3.000
E	1.200	1.400
E1	2.250	2.550
e	0.950TYP	
e1	1.800	2.000
L	0.550REF (0.4-0.6)	
L1	0.300	0.500
θ	0°	8°

unit: mm