

■ Features

- Low C_{ob} . $C_{ob}=2.0pF$ (Typ.)

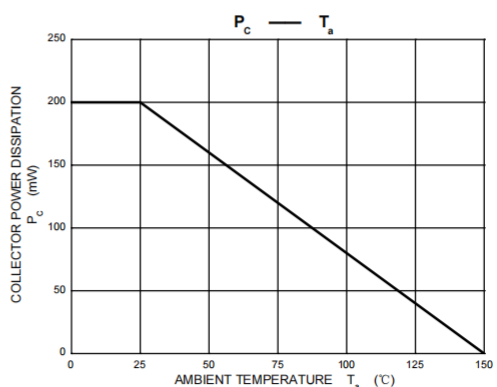
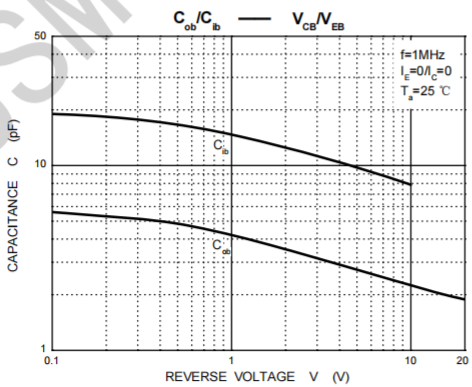
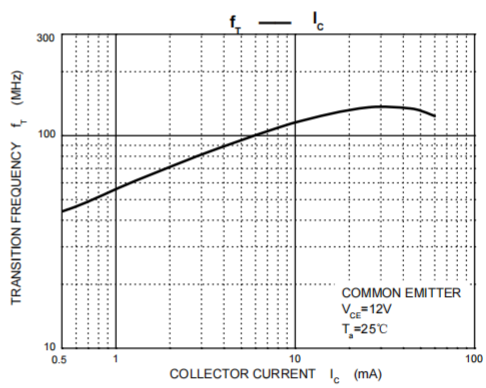
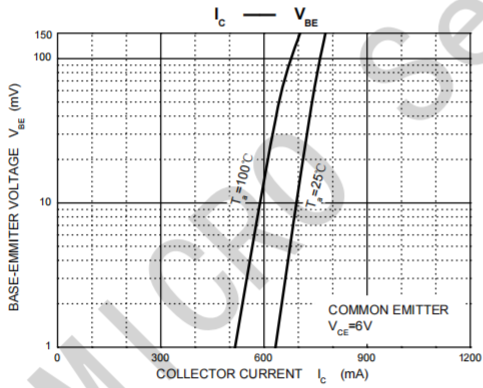
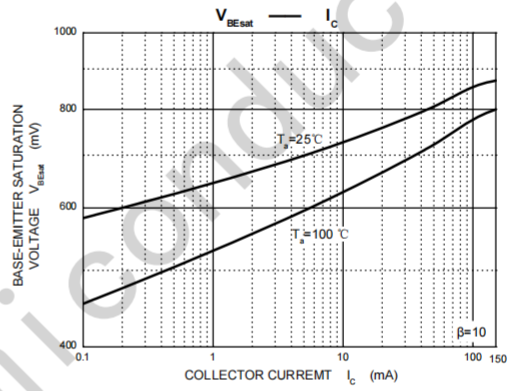
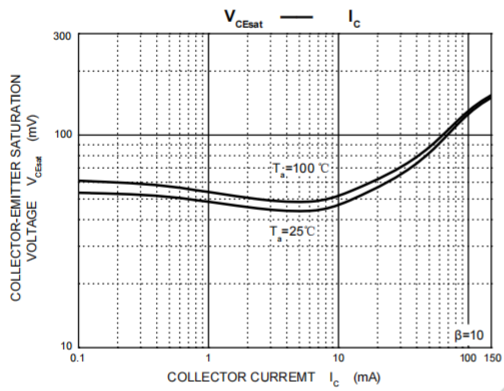
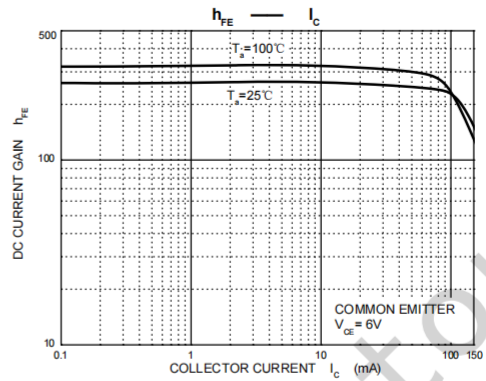
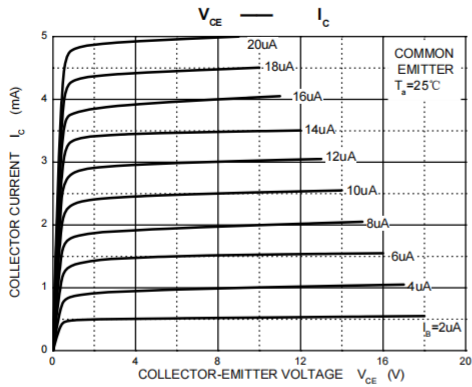

SOT-23
■ Absolute Maximum Ratings $T_a = 25^{\circ}C$

Parameter	Symbol	Rating	Unit
Collector-base voltage	V_{CBO}	60	V
Collector-emitter voltage	V_{CEO}	50	V
Emitter-base voltage	V_{EBO}	7	V
Collector current	I_C	0.15	A
Collector power dissipation	P_C	0.2	W
Junction temperature	T_J	150	$^{\circ}C$
Storage temperature	T_{stg}	-55 to +150	$^{\circ}C$

■ Electrical Characteristics $T_a = 25^{\circ}C$

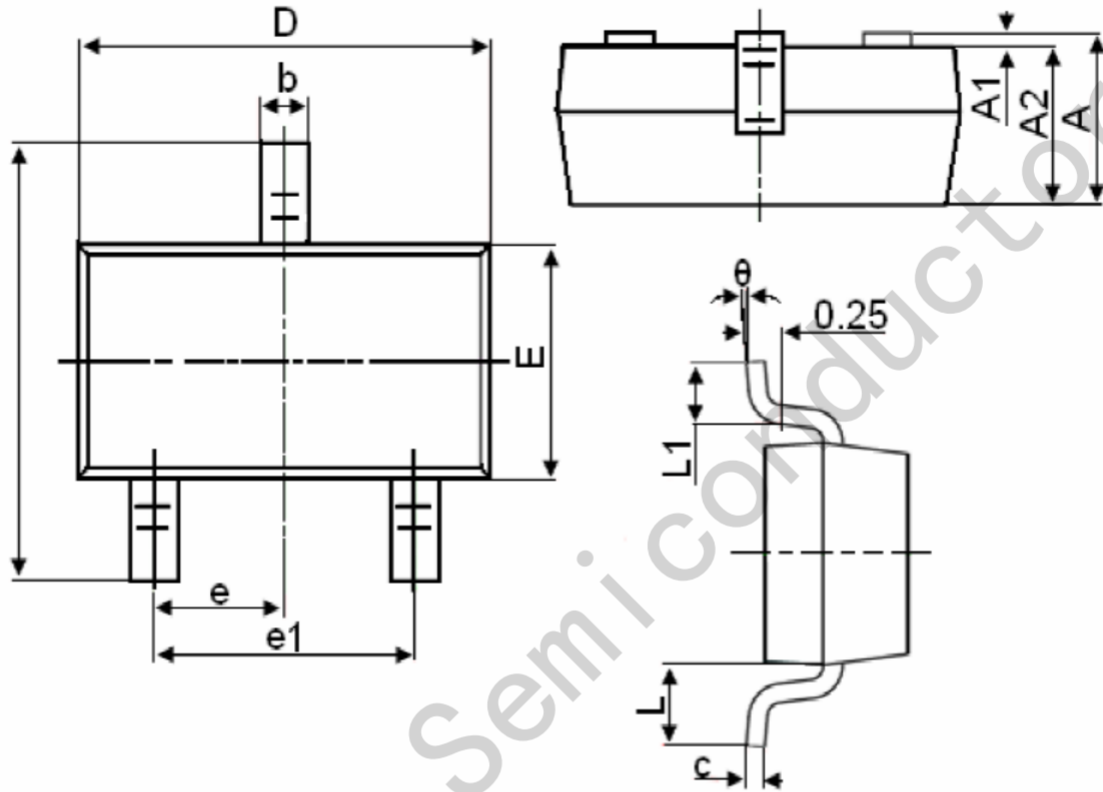
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V_{CBO}	$I_C = 50 \mu A, I_E = 0$	60			V
Collector- emitter breakdown voltage	V_{CEO}	$I_C = 1 mA, I_B = 0$	50			
Emitter - base breakdown voltage	V_{EBO}	$I_E = 50 \mu A, I_C = 0$	7			
Collector-base cut-off current	I_{CBO}	$V_{CB} = 60 V, I_E = 0$			100	nA
Emitter cut-off current	I_{EBO}	$V_{EB} = 7V, I_C = 0$			100	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = 50 mA, I_B = 5 mA$			0.4	V
Base - emitter saturation voltage	$V_{BE(sat)}$	$I_C = 50 mA, I_B = 5 mA$			1.2	
DC current gain	h_{FE}	$V_{CE} = 6V, I_C = 1 mA$	120		560	
Collector output capacitance	C_{ob}	$V_{CB} = 12V, I_E = 0, f = 1 MHz$		2	3.5	pF
Transition frequency	f_T	$V_{CE} = 12V, I_E = -2 mA, f = 100 MHz$	80			MHz

■ Typical Characteristics



Package Information

SOT-23



Symbol	Dimensions in Millimeters(mm)		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	0.080	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	0.950TYP		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
θ	0°	8°	0°	8°

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