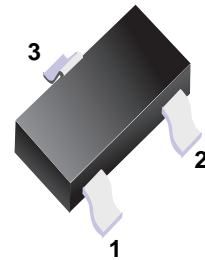


NPN Switching Transistor

■ Features

- Small Package
- Complementary to SL3906T



- 1.Base
- 2.Emitter
- 3.Collector

■ Simplified outline(SOT-523)

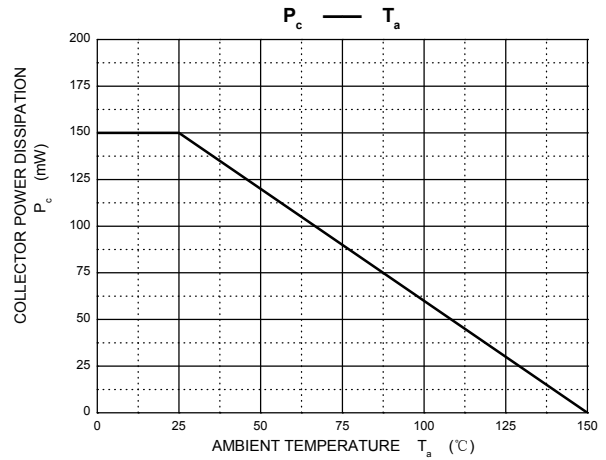
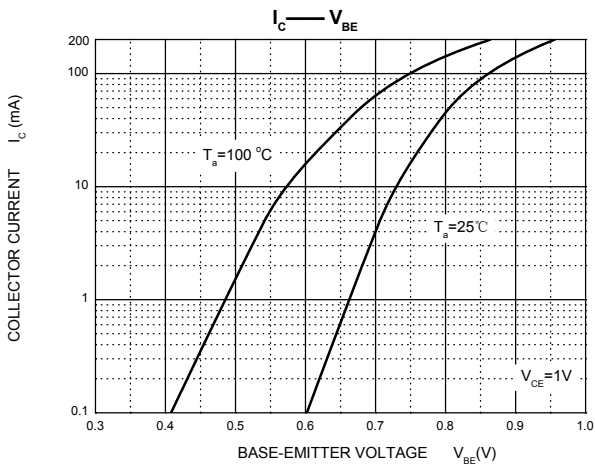
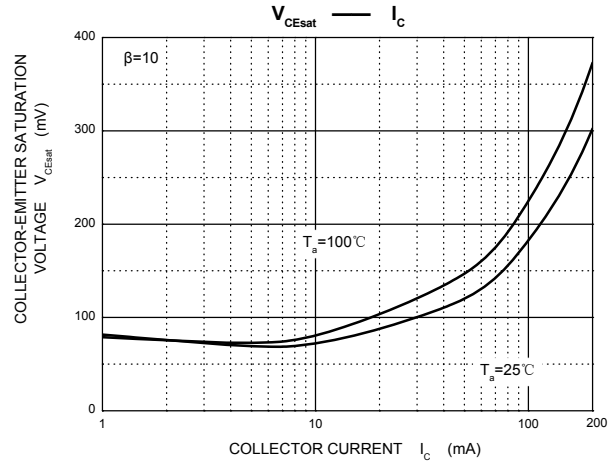
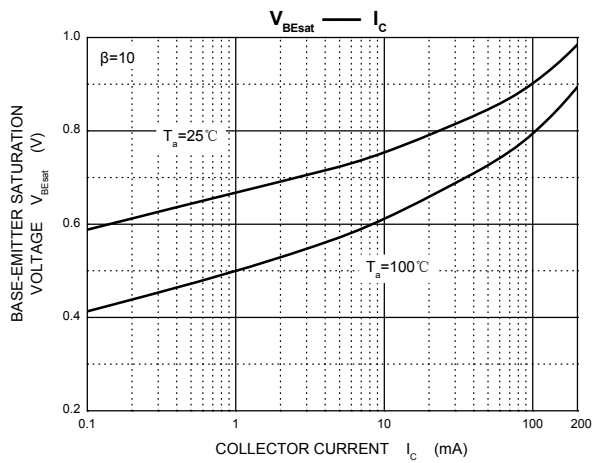
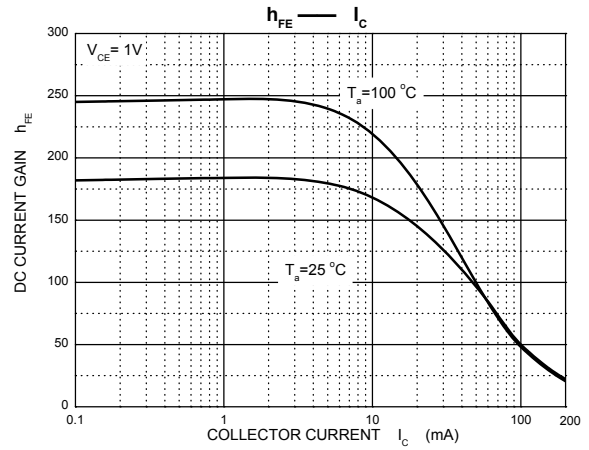
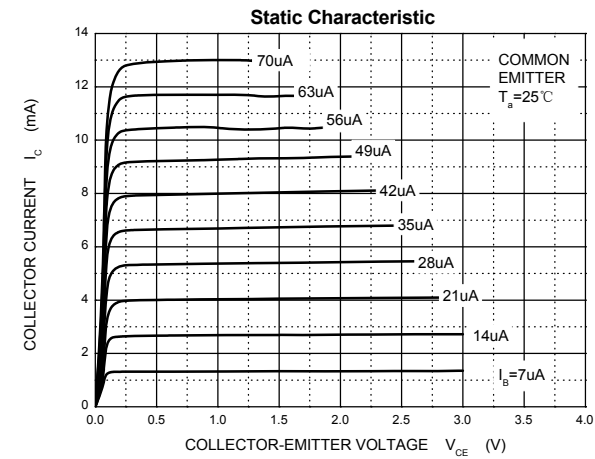
■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V_{CB0}	60	V
Collector - Emitter Voltage	V_{CE0}	40	
Emitter - Base Voltage	V_{EB0}	6	
Collector Current - Continuous	I_c	200	mA
Collector Power Dissipation	P_c	150	mW
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	833	$^\circ\text{C}/\text{W}$
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55 to 150	

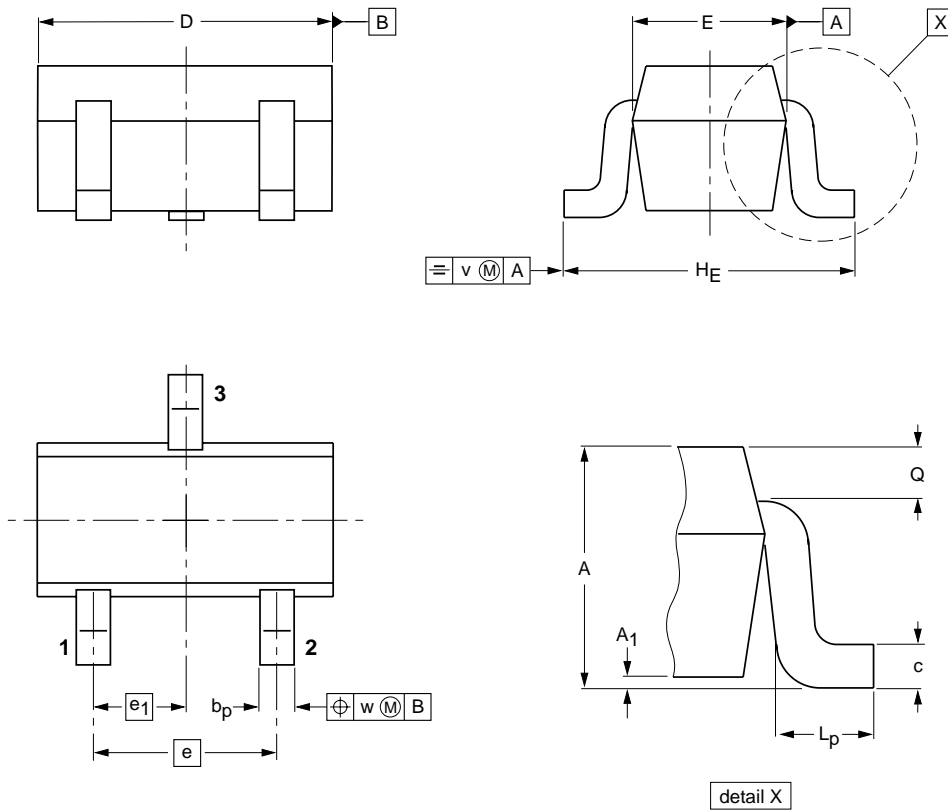
■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V _{CB0}	I _c = 100 μA, I _E = 0	60			V
Collector- emitter breakdown voltage	V _{CEO}	I _c = 1 mA, I _B = 0	40			
Emitter - base breakdown voltage	V _{EBO}	I _E = 100 μA, I _C = 0	6			
Collector-base cut-off current	I _{CBO}	V _{CB} = 60 V, I _E = 0			100	nA
Collector cut-off current	I _{CEx}	V _{CE} = 30 V, V _{EB(off)} =3V			50	
Emitter cut-off current	I _{EBO}	V _{EB} = 5V, I _C =0			100	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =10 mA, I _B =1mA			0.2	V
		I _C = 50 mA, I _B = 5mA			0.3	
Base - emitter saturation voltage	V _{BE(sat)}	I _C =10 mA, I _B =1mA	0.65		0.85	
		I _C = 50 mA, I _B = 5mA			0.95	
DC current gain	h _{FE(1)}	V _{CE} = 10V, I _C = 0.1mA	40			
	h _{FE(2)}	V _{CE} = 10V, I _C = 1mA	70			
	h _{FE(3)}	V _{CE} = 10V, I _C = 10mA	100		300	
	h _{FE(4)}	V _{CE} = 10V, I _C = 50mA	60			
Delay time	t _d	V _{CC} =3V, V _{BE(off)} =-0.5V I _C =10mA, I _{B1} =1mA			35	nS
Rise time	t _r				35	
Storage time	t _s	V _{CC} =3V, I _C =10mA, I _{B1} =I _{B2} =1mA			200	
Fall time	t _f				50	
Collector output capacitance	C _{ob}	V _{CB} = 5V, I _E = 0, f=1MHz			4	pF
Base input capacitance	C _{ib}	V _{EB} =0.5V, I _C =0, f=1MHz			8	
Transition frequency	f _T	V _{CE} = 20V, I _C = 10mA, f=100MHz	300			MHz

Typical Characteristics



■ SOT-523



DIMENSIONS (mm are the original dimensions)

UNIT	A	A ₁ max	b _p	c	D	E	e	e ₁	H _E	L _p	Q	v	w
mm	0.95 0.60	0.1	0.30 0.15	0.25 0.10	1.8 1.4	0.9 0.7	1	0.5	1.75 1.45	0.45 0.15	0.23 0.13	0.2	0.2

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