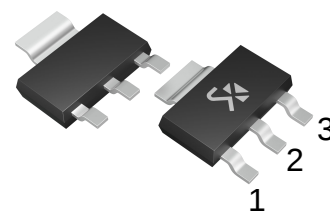


Silicon PNP bipolar Transistor

Features

- Collector-Emitter Voltage : -60V
- Collector-Base Voltage: -60V
- Emitter-Base Voltage: -5V



Pin assignment

PIN NAME	PIN NUMBER	FUNCTION
	SOT-223	
B	1	BASE
C	2	COLLECTOR
E	3	EMITTER

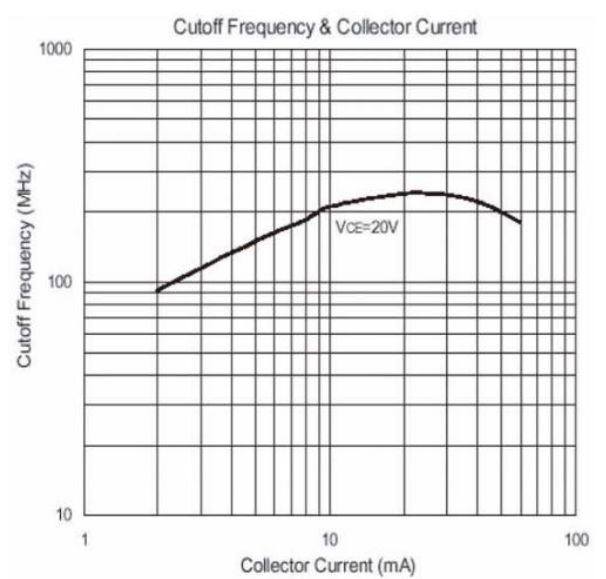
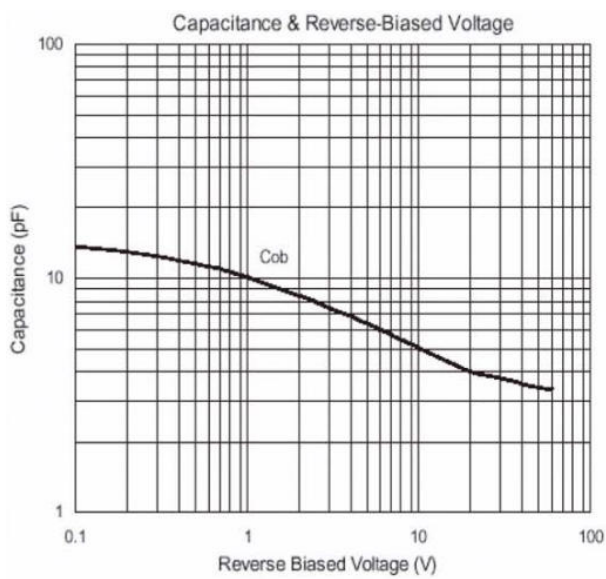
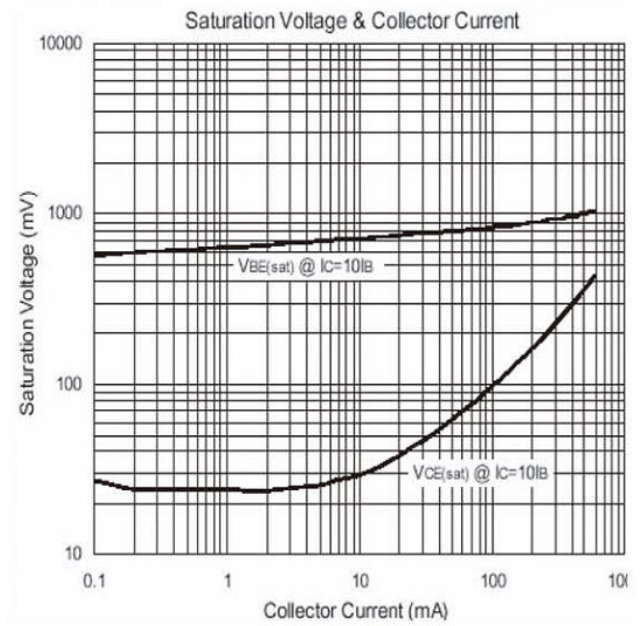
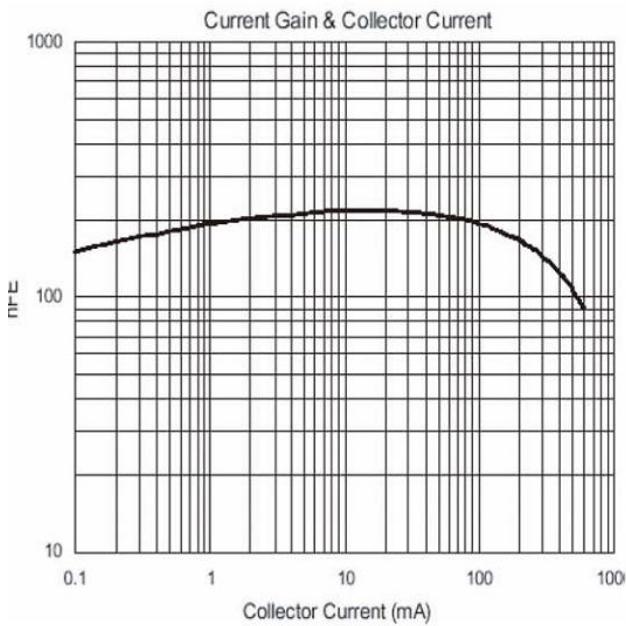
MAXIMUM RATINGS (T_A=25°C unless otherwise noted)

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	-60	V
V _{CEO}	Collector-Emitter Voltage	-60	V
V _{EBO}	Emitter-Base Voltage	-5	V
I _C	Collector Current -Continuous	-0.6	A
P _C	Collector Power Dissipation	1.5	W
T _j	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55 to +150	°C

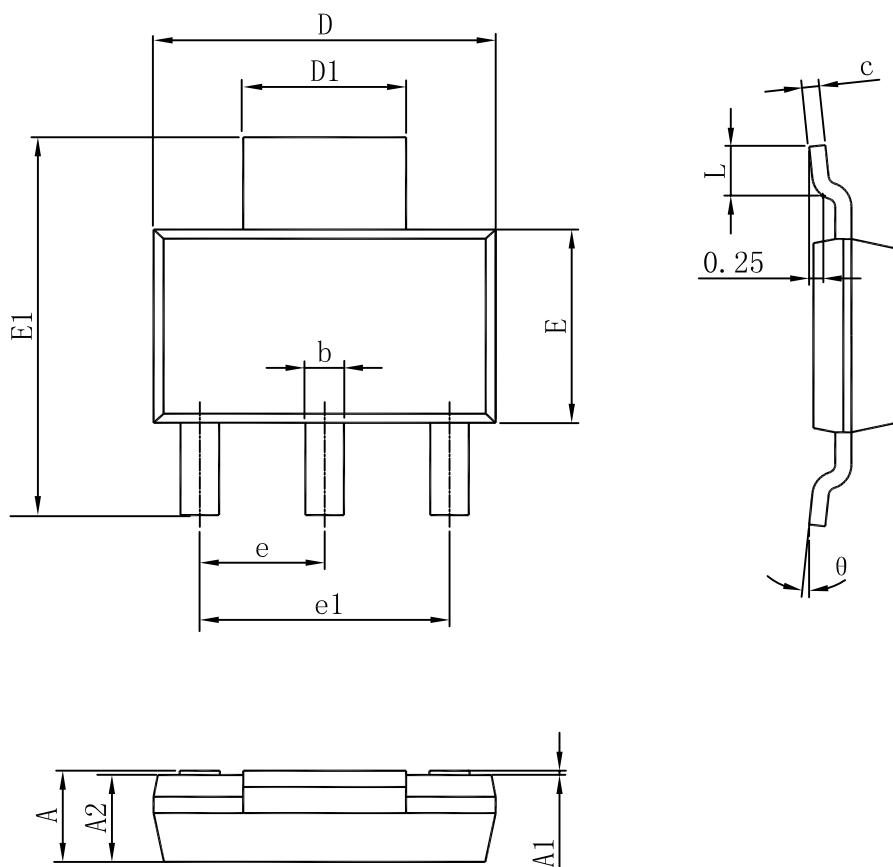
ELECTRICAL CHARACTERISTICS (T_{amb}=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =-10μA , I _E =0	-60			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C = -10mA, I _B =0	-60			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-10μA , I _C =0	-5			V
Collector-Emitter cut-off current	I _{CEX}	V _{CE} =-30V, V _{BE} =-0.5V			-50	nA
Emitter cut-off current	I _{EBO}	V _{EB} =-3V, I _B =0			-100	nA
DC current gain	h _{FE}	V _{CE} =-10V I _C = -1mA V _{CE} =-10V I _C = -10mA V _{CE} =-10V I _C = -100mA V _{CE} =-10V I _C =-150mA V _{CE} =-10V I _C = -500mA	100 100 75 100 50	180	300	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-500mA I _B = -50mA		-0.5	-1.6	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =-500mA I _B = -50mA			-2.6	V
Transition Frequency	f _T	V _{CE} =-20V, I _C =-50mA f=100MHz	200			MHz
Output Capacitance	C _{ob}	V _{CE} =-10V, f=1MHz			8	pF

Typical characteristics



SOT-223 PACKAGE OUTLINE DIMENSIONS



Symbol	Millimeters		Inches	
	Min	Max	Min	Max
A	1.520	1.800	0.06	0.071
A1	0.02	0.100	0.001	0.004
A2	1.500	1.700	0.059	0.067
b	0.660	0.810	0.026	0.032
c	0.240	0.320	0.010	0.014
D	6.300	6.500	0.248	0.256
D1	2.900	3.100	0.114	0.122
E	3.300	3.700	0.130	0.146
E1	6.830	7.070	0.269	0.278
e	2.3 (BSC)		0.091 (BSC)	
e1	4.500	4.700	0.177	0.185
L	0.900	1.150	0.035	0.045
θ	0°	10°	0°	10°