

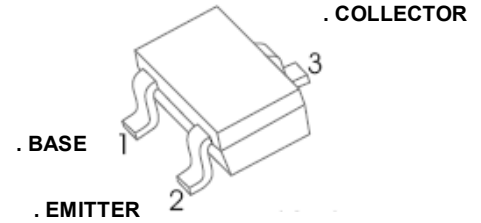
Silicon Epitaxial Planar Transistor (PNP)

FEATURES

Collector Current.($I_C= 1.5A$)

Complementary To SS8050W.

Collector Dissipation: $P_C=0.2W$ ($T_C=25^\circ C$)



APPLICATIONS

High Collector Current.

SOT - 323

Marking : Y2

MAXIMUM RATING @ $T_a=25^\circ C$ unless otherwise specified

Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage	-40	V
V_{CEO}	Collector-Emitter Voltage	-25	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current -Continuous	-1.5	A
P_C	Collector Dissipation	0.2	W
T_j, T_{stg}	Junction and Storage Temperature	-55~150	$^\circ C$

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=-100\mu A, I_E=0$	-40			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=-0.1mA, I_B=0$	-25			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=-100\mu A, I_C=0$	-5			V
Collector cut-off current	I_{CBO}	$V_{CB}=-40V, I_E=0$			-0.1	μA
Collector cut-off current	I_{CEO}	$V_{CE}=-20V, I_B=0$			-0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=-5V, I_C=0$			-0.1	μA
DC current gain	h_{FE}	$V_{CE}=-1V, I_C=-100mA$	200		350	
		$V_{CE}=-1V, I_C=-800mA$	30			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=-800mA, I_B=-80mA$			-0.5	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C=-800mA, I_B=-80mA$			-1.2	V
Transition frequency	f_T	$V_{CE}=-10V, I_C=-50mA$ $f=30MHz$	100			MHz
Output capacitance	C_{ob}	$V_{CB}=-10V, I_E=0, f=1MHz$			20	pF
Base-emitter voltage	V_{BEF}	$I_E=-1.5A$			-1.6	V

CLASSIFICATION OF h_{FE}

Rank	H
Range	200-350

TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

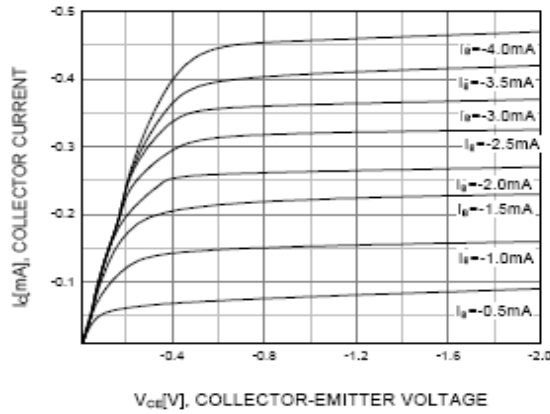


Figure 1. Static Characteristic

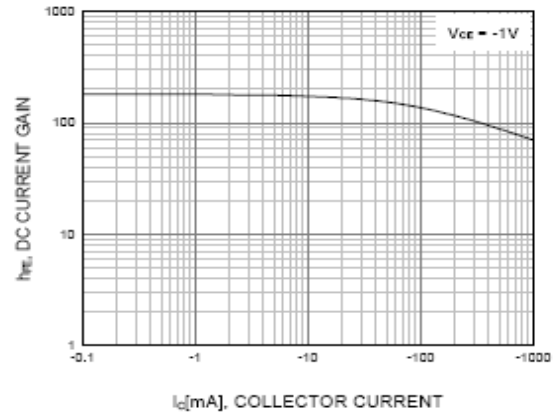


Figure 2. DC current Gain

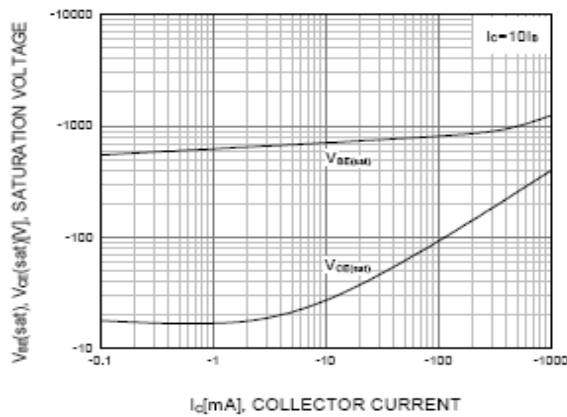


Figure 3. Base-Emitter Saturation Voltage
Collector-Emitter Saturation Voltage

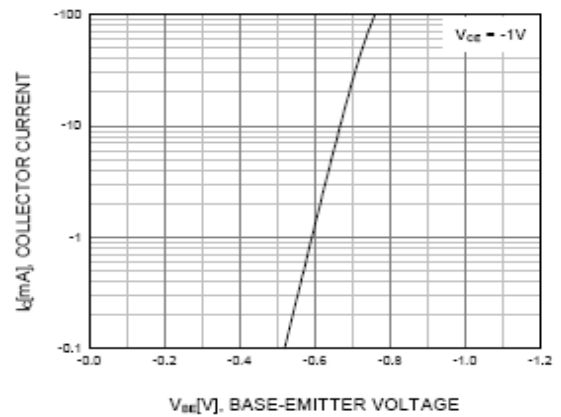


Figure 4. Base-Emitter On Voltage

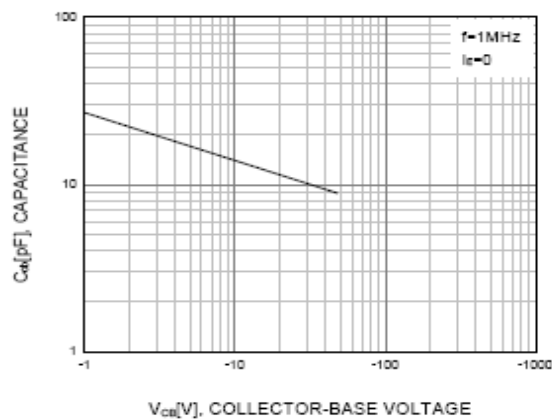


Figure 5. Collector Output Capacitance

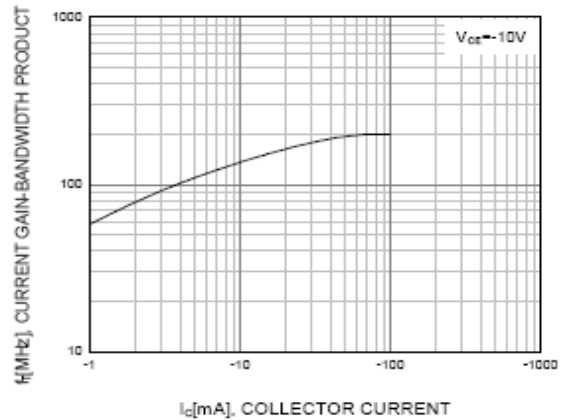
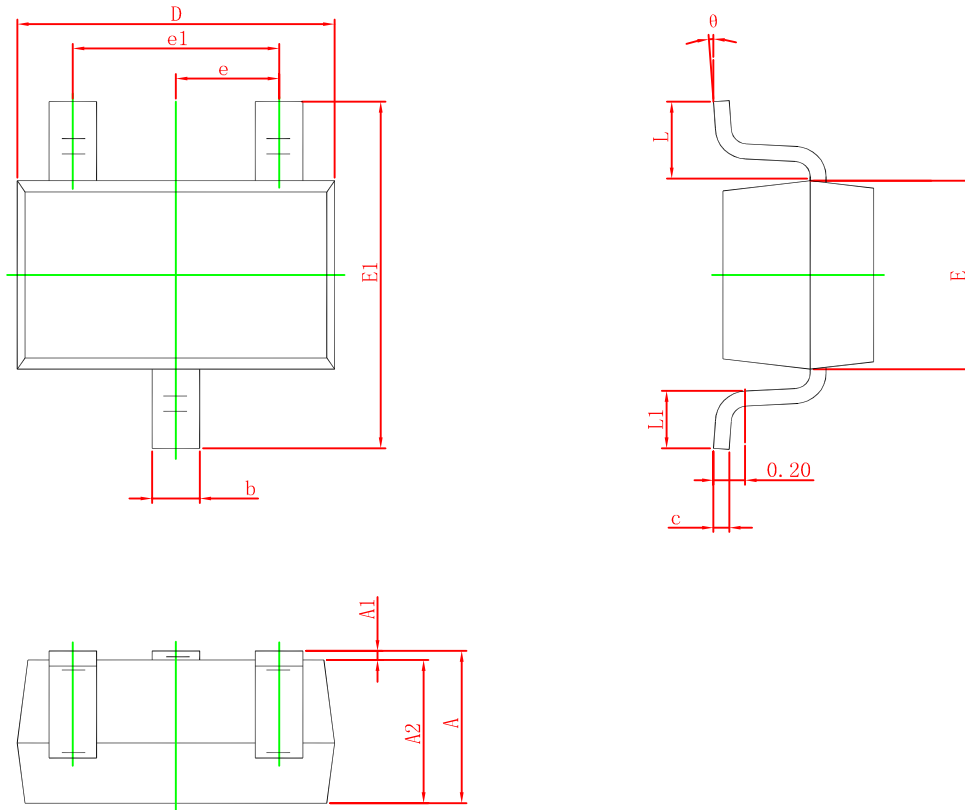


Figure 6. Current Gain Bandwidth Product

SOT-323 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	0.900	1.100	0.035	0.043
A1	0.000	0.100	0.000	0.004
A2	0.900	1.000	0.035	0.039
b	0.200	0.400	0.008	0.016
c	0.080	0.150	0.003	0.006
D	2.000	2.200	0.079	0.087
E	1.150	1.350	0.045	0.053
E1	2.150	2.450	0.085	0.096
e	0.650 TYP.		0.026 TYP.	
e1	1.200	1.400	0.047	0.055
L	0.525 REF.		0.021 REF.	
L1	0.260	0.460	0.010	0.018
θ	0°	8°	0°	8°