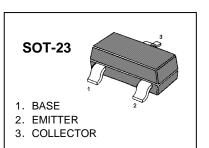
S9012 TRANSISTOR (PNP)

FEATURES

Complementary to S9013 Excellent h_{FE} linearity

MARKING: 2T1



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

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	
$I_{\rm C}$	Collector Current -Continuous	-500	mA	
P_{C}	Collector Power Dissipation	300	mW	
$T_{\rm j}$	Junction Temperature	150	$^{\circ}$	
T_{stg}	Storage Temperature	-55-150	$^{\circ}$	

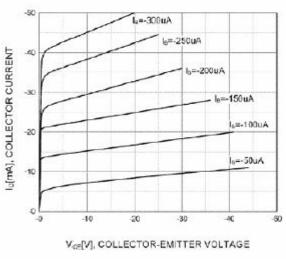
ELECTRICAL CHARACTERISTICS (Tamb=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = -100μA, I _E =0	-40			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C = -1mA, I _B =0	-25			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-100μA, I _C =0	-5			V
Collector cut-off current	I _{CBO}	V _{CB} =-40V, I _E =0			-0.1	μΑ
Collector cut-off current	I _{CEO}	V _{CE} =-20V, I _B =0			-0.1	μΑ
Emitter cut-off current	I _{EBO}	V _{EB} = -5V, I _C =0			-0.1	μΑ
DC current gain	h _{FE}	V _{CE} =-1V, I _C = -50mA	120		200	
Collector-emitter saturation voltage	V _{CE} (sat)	I _C =-500mA, I _B = -50mA			-0.6	V
Base-emitter saturation voltage	V _{BE} (sat)	I _C =-500mA, I _B = -50mA			-1.2	V
Transition frequency	f⊤	V _{CE} =-6V, I _C = -20mA f=30MHz	150			MHz
Collector output capacitance	C _{ob}	V _{CB} =-10V, I _E =0, f=1MHz			5	pF

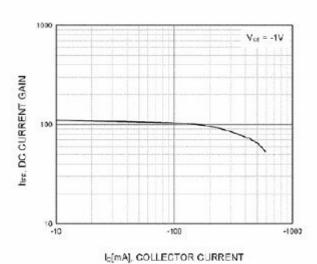
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Typical Characteristics

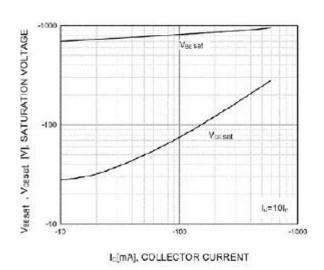
S9012



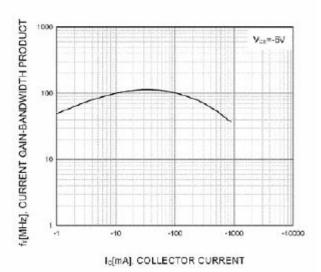
Static Characteristic



DC current Gain



Base-Emitter Saturation Voltage Collector-Emitter Saturation Voltage



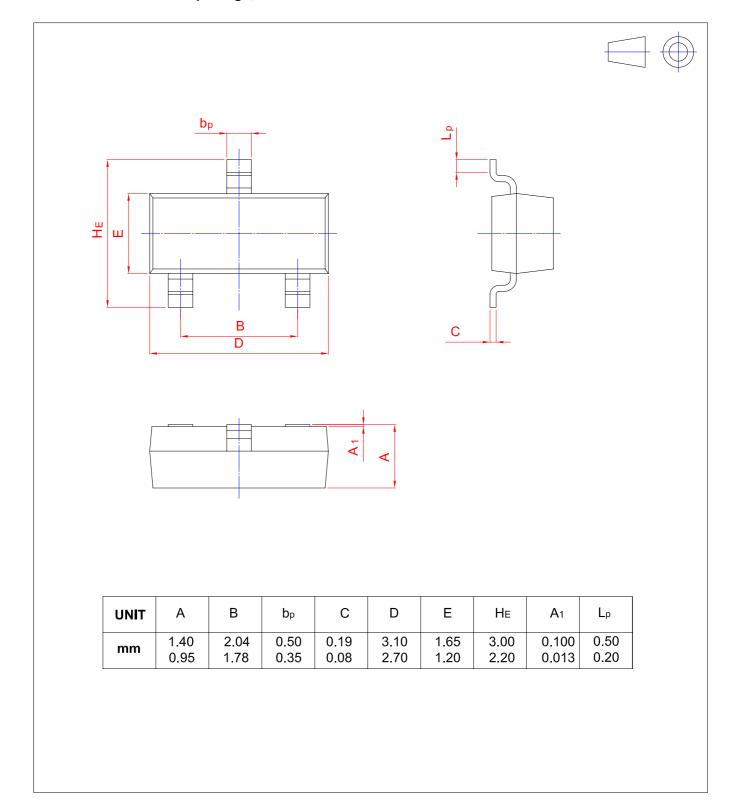
Current Gain Bandwidth Product

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PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

SOT-23



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