

SEC114GLT1G
PNP Transistors

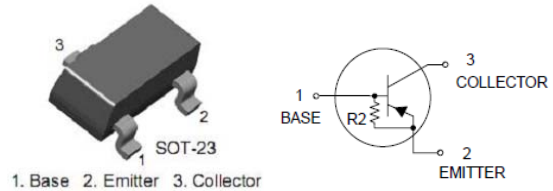
Revision: A

Feature

- AM/FM Amplifier, local oscillator of FM/VHF tuner
- High current gain bandwidth product

Applications

- Inverter, Interface, Driver



Absolute Maximum Ratings (TA=25°C)

Parameter	Symbol	Limits	Units
Collector-base voltage	V_{CB0}	-50	V
Collector-emitter voltage	V_{CEO}	-50	V
Emitter-base voltage	V_{EBO}	-5	V
Collector current	I_C	-500	mA
Collector power dissipation	P_C	200	mW
Junction temperature	T_J	150	°C
Storage temperature	T_{stg}	-55 to +150	°C

Electrical Characteristics (TA=25°C)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Collector-base breakdown voltage	BV_{CB0}	$I_C = -50\mu A, I_E = 0$	-50			V
Collector-emitter breakdown voltage	BV_{CEO}	$I_C = -1mA, I_B = 0$	-50			V
Emitter-base breakdown voltage	BV_{EBO}	$I_E = -720\mu A, I_C = 0$	-5			V
Collector cutoff current	I_{CB0}	$V_{CB} = -50V, I_E = 0$			-0.5	μA
Emitter cut-off current	I_{EBO}	$V_{CE} = -4V, I_C = 0$			-580	μA
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -50mA, I_B = -50mA$			-0.3	V
DC current transfer ratio	h_{fe}	$V_{CE} = -5V, I_C = -50mA$	56			
Transition frequency	f_T	$V_{CE} = -10V, I_E = -50mA$		200		MHz

*Characteristics of built-in transistor

Typical Characteristics

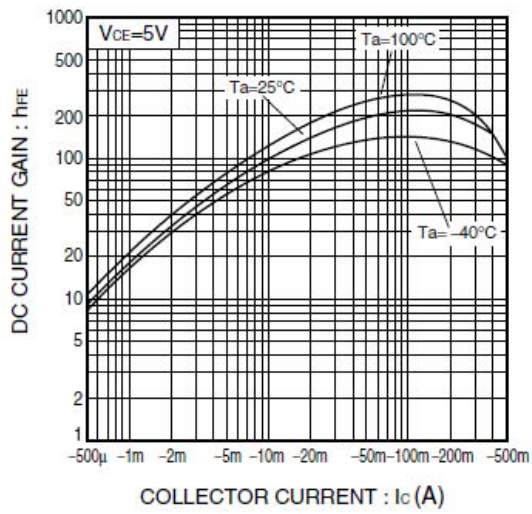


Fig.1 DC current transfer ratio vs. Collector current

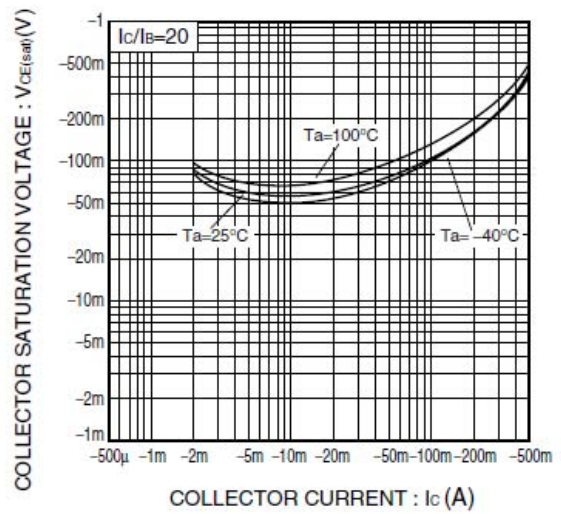


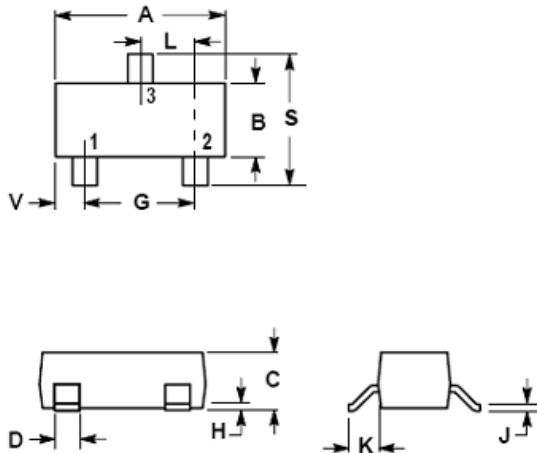
Fig.2 Collector-Emitter saturation voltage vs. Collector current

Package Outline Dimension

SOT-23

NOTES:

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M,1982
2. CONTROLLING DIMENSION: INCH.



DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.1102	0.1197	2.80	3.04
B	0.0472	0.0551	1.20	1.40
C	0.0350	0.0440	0.89	1.11
D	0.0150	0.0200	0.37	0.50
G	0.0701	0.0807	1.78	2.04
H	0.0005	0.0040	0.013	0.100
J	0.0034	0.0070	0.085	0.177
K	0.0140	0.0285	0.35	0.69
L	0.0350	0.0401	0.89	1.02
S	0.0830	0.1039	2.10	2.64
V	0.0177	0.0236	0.45	0.60

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