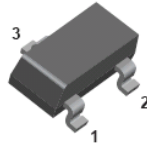




2SC3052

Silicon Epitaxial Planar Transistor

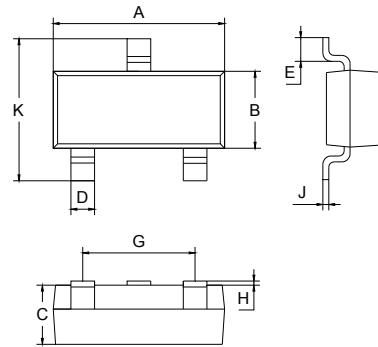


FEATURES

- Low collector to emitter saturation voltage.
- Excellent linearity of DC forward current gain.
- Super mini package for easy mounting.

APPLICATIONS

- For hybrid IC, small type machine low frequency voltage amplify application.



SOT-23		
Dim	Min	Max
A	2.70	3.10
B	1.10	1.50
C	1.0 Typical	
D	0.4 Typical	
E	0.35	0.48
G	1.80	2.00
H	0.02	0.1
J	0.1 Typical	
K	2.20	2.60
All Dimensions in mm		

ORDERING INFORMATION

Type No.	Marking	Package Code
2SC3052	LE/LF/LG	SOT-23

SOT-23

MAXIMUM RATING @ Ta=25°C unless otherwise specified

Symbol	Parameter	Value	Units
V _{CB0}	Collector-Base Voltage	50	V
V _{CEO}	Collector-Emitter Voltage	50	V
V _{EBO}	Emitter-Base Voltage	6	V
I _C	Collector Current -Continuous	200	mA
P _C	Collector Dissipation	125	mW
T _j , T _{stg}	Junction and Storage Temperature	-55 to +150	°C

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

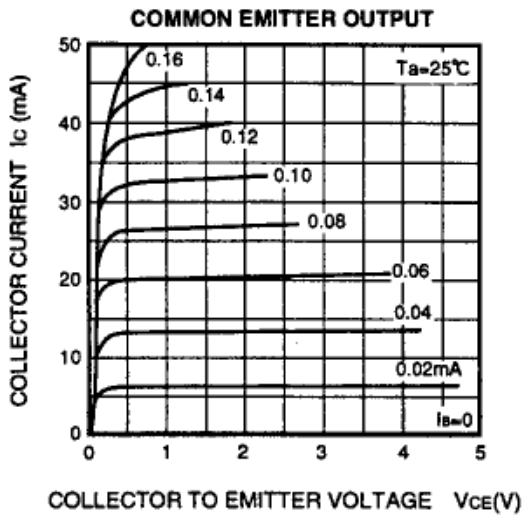
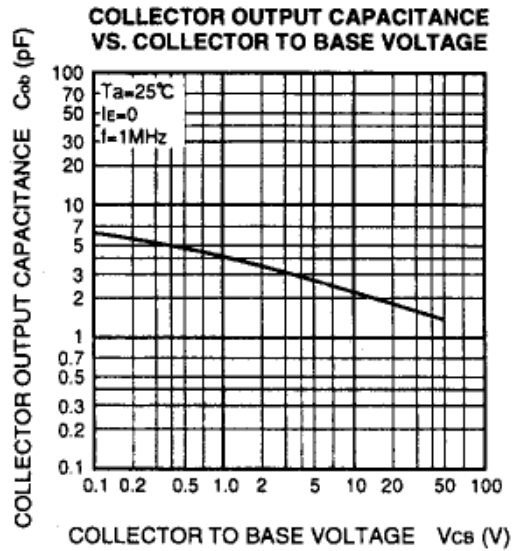
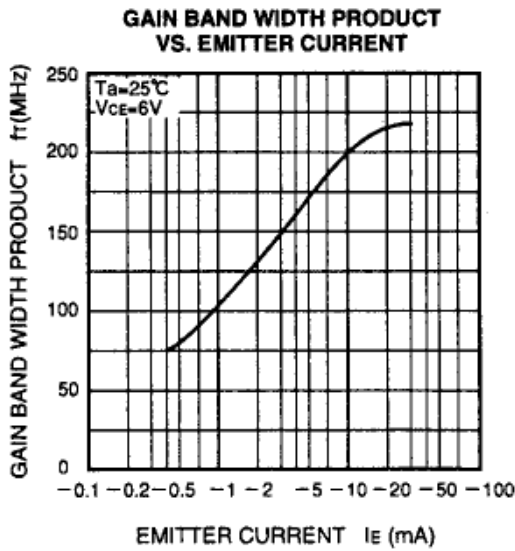
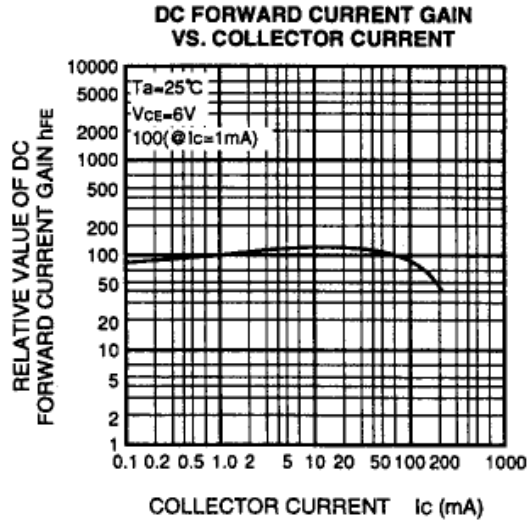
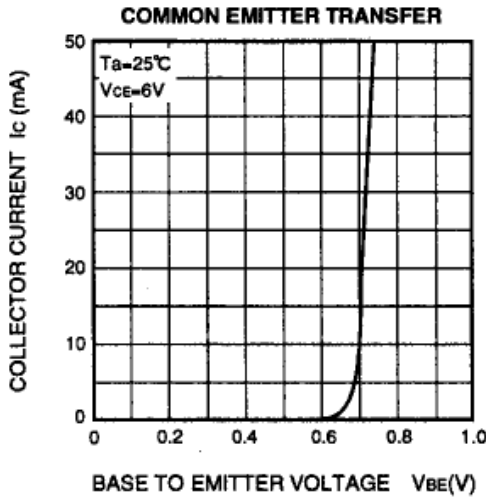
Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	V _{(BR)CB0}	I _C =100μA, I _E =0	50			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =0.1mA, I _B =0	50			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =100μA, I _C =0	6			V
Collector cut-off current	I _{CB0}	V _{CB} =50V, I _E =0			0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =6V, I _C =0			0.1	μA
DC current gain	h _{FE}	V _{CE} =6V, I _C =1mA V _{CE} =6V, I _C =0.1mA	150 90		800	
Collector to Emitter saturation voltage	V _{CE(sat)}	I _C =100mA, I _B =10mA			0.3	V
Collector output capacitance	C _{ob}	V _{CB} =6V, I _E =0, f=1MHz		2.5		pF
Transition frequency	f _T	V _{CE} =6V, I _C =10mA		200		MHz
Noise Figure	NF	V _{CE} =6V, I _E =0.1mA, f=1kHz, R _G =2kΩ			20	dB

CLASSIFICATION OF h_{FE}

Rank	E	F	G
Range	150-300	250-500	400-800
Marking	LE	LF	LG



TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified



Device	Package	Shipping
2SC3052	SOT-23	3000/Tape&Reel