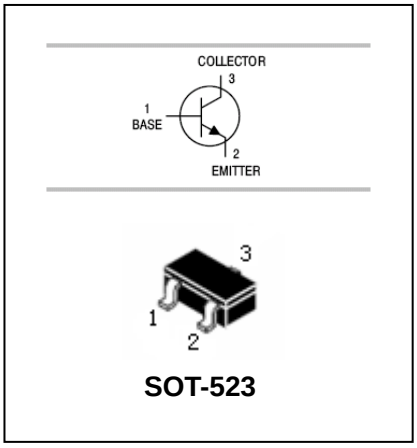
LOW FREQUENCY TRANSISTOR 2SC5585

FEATURES

- High current.
- Low $V_{CE(sat)}$

Lead-free



Applications

- For switching
- For muting

ORDERING INFORMATION

Type No.	Marking	Package Code
2SC5585	BX	SOT-523

MAXIMUM RATING @ Ta=25℃ unless otherwise specified

Symbol	**Parameter**	**Value**	**Units**
V_{CBO}	Collector-Base Voltage	15	V
V_{CEO}	Collector-Emitter Voltage	12	V
V_{EBO}	Emitter-Base Voltage	6	V
I_C	Collector Current	500	mA
P_C	Collector Power Dissipation	150	mW
T_j,T_{stg}	Junction and Storage Temperature	-55~150	℃

LOW FREQUENCY TRANSISTOR 2SC5585

ELECTRICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	BV_{CBO}	I_C=10uA	15			V
Collector-emmitter breakdown voltage	BV_{CEO}	I_C=1mA	12			V
Emitter-base breakdown voltage	BV_{EBO}	I_E=10uA	6			V
Collector cut-off current	I_{CBO}	V_{CB}=15V,I_E=0			0.1	μA
Emitter cut-off current	I_{EBO}	V_{CB}=6V,I_E=0			0.1	μA
DC current gain	h_{FE}	V_{CE}=2V,I_C=10mA	270		680	
Collector-emitter saturation voltage	$V_{CE(sat)}$	I_C=200mA, I_B=10mA		0.09	0.25	V
Transition frequency	f_T	V_{CE}=2V, I_E=-10mA, f=100MHz		320		MHz
Collector output capacitance	C_{ob}	V_{CB}=10V, I_E=0mA,f=1MHz		7.5		pF

LOW FREQUENCY TRANSISTOR 2SC5585

TYPICAL CHARACTERISTICS

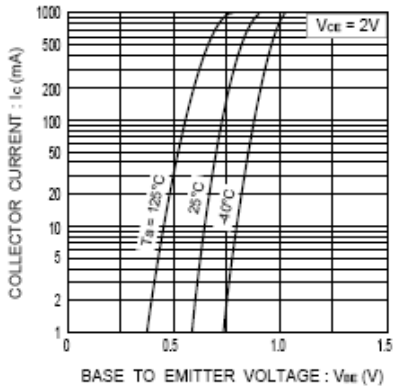


Fig.1 Grounded emitter propagation characteristics

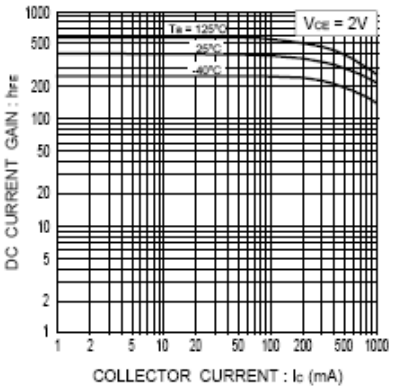


Fig.2 DC current gain vs. collector current

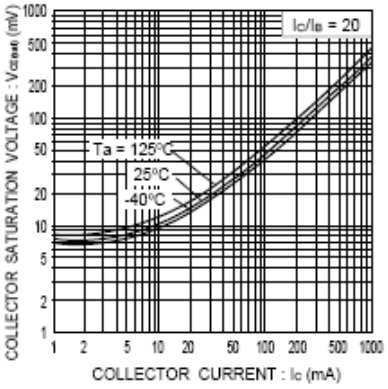


Fig.3 Collector-emitter saturation voltage vs. collector current (I)

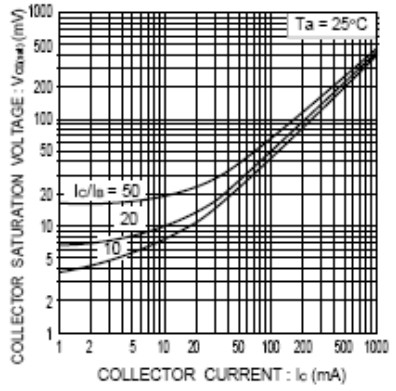


Fig.4 Collector-emitter saturation voltage vs. collector current (II)

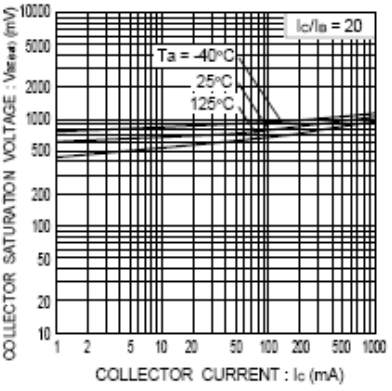


Fig.5 Base-emitter saturation voltage vs. collector current

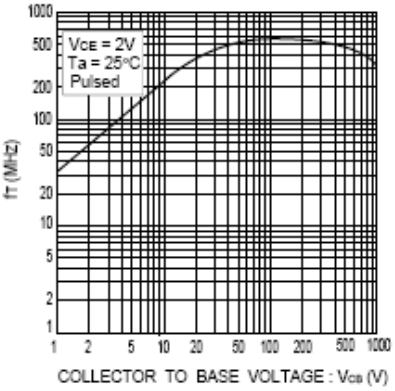


Fig.6 Collector output capacitance Emitter input capacitance vs. base voltage

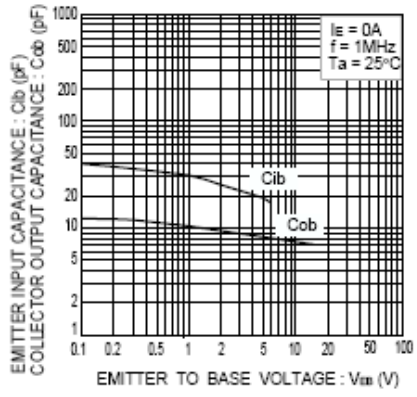
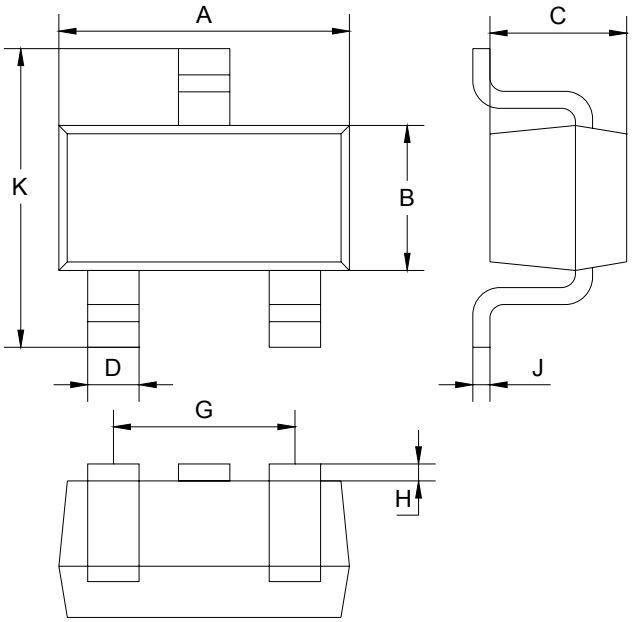


Fig.7 Collector output capacitance vs collector-base voltage Emitter input capacitance vs emitter-base voltage

LOW FREQUENCY TRANSISTOR 2SC5585

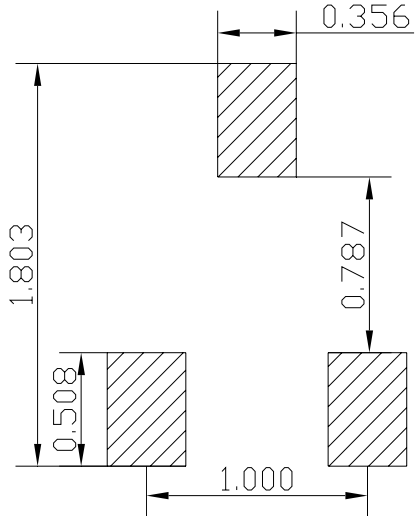
PACKAGE OUTLINE

Plastic surface mounted package SOT-523



SOT-523		
Dim	Min	Max
A	1.5	1.7
B	0.75	0.85
C	0.6	0.8
D	0.15	0.3
G	0.9	1.1
H	0.02	0.1
J	0.1Typical	
K	1.45	1.75
All Dimensions in mm		

SOLDERING FOOTPRINT



Unit : mm

PACKAGE INFORMATION

Device	Package	Shipping
2SC5585	SOT-523	3000/Tape&Reel