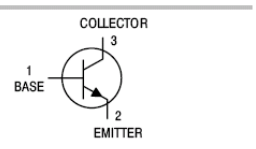
NPN High-frequency Transistor 2SC4627

FEATURES

Lead-free

- Optimum for RF amplification of FM/AM radios.
- High requency voltage $f_{T.}$
- SS-Mini type package,allowing downsizing of The equipment and automatic insertion through the type.



SOT-523

APPLICATIONS

- General purpose switching and amplification.

ORDERING INFORMATION

Type No.	Marking	Package Code
2SC4627	U	SOT-523

MAXIMUM RATING @ Ta=25℃ unless otherwise specified

Symbol	**Parameter**	**Value**	**Units**
V_{CBO}	Collector-Base Voltage	30	V
V_{CEO}	Collector-Emitter Voltage	20	V
V_{EBO}	Emitter-Base Voltage	3	V
I_C	Collector Current -Continuous	15	mA
P_C	Collector Dissipation	125	mW
T_j,T_{stg}	Junction and Storage Temperature	-55 to +150	℃

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ELECTRICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	I_C=10μA,I_E=0	30			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	I_E=10μA,I_C=0	3			V
DC current gain	h_{FE}	V_{CB}=6V,I_E=-1mA	40		260	
Base-emitter voltage	V_{BE}	V_{CB}=6V,I_E=-1mA		0.72		V
Transition frequency	f_T	V_{CE}=12V, I_E=-1mA,f=200MHz	450	650		MHz
Common-collector reverse transfer capacitance	C_{re}	V_{CB}=6V, I_E=-1mA,f=10.7MHz		0.8	1	Pf

CLASSIFICATION OF H_{FE}

RANK	B	C	D
RANGE	40-110	65-160	100-260

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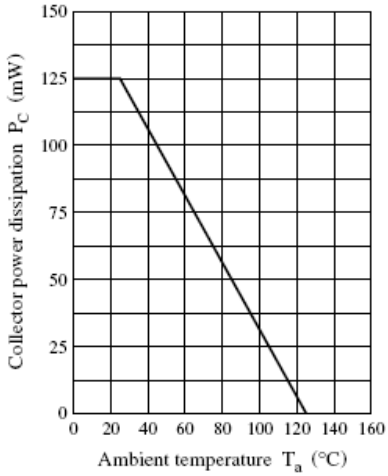
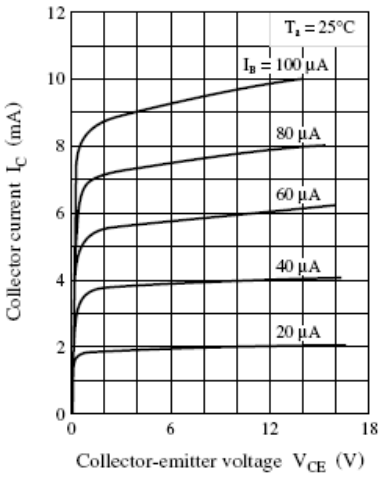
TYPICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

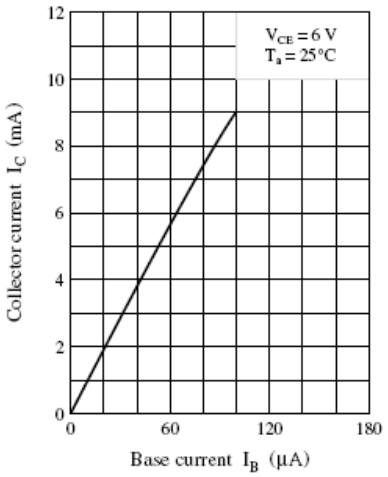
P_C — T_a



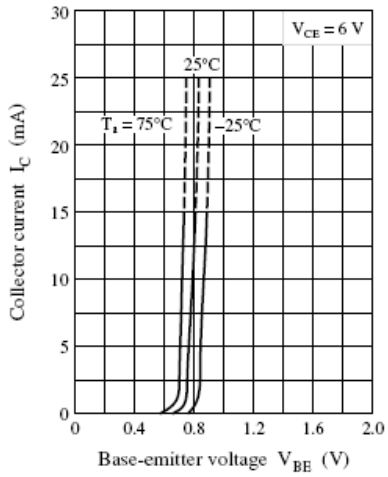
I_C — V_{CE}



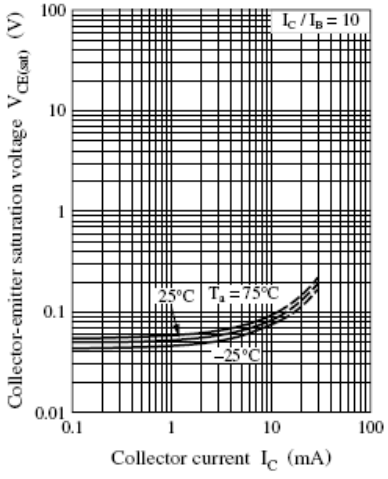
I_C — I_B



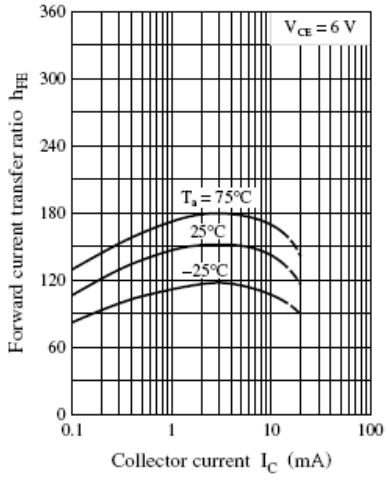
I_C — V_{BE}



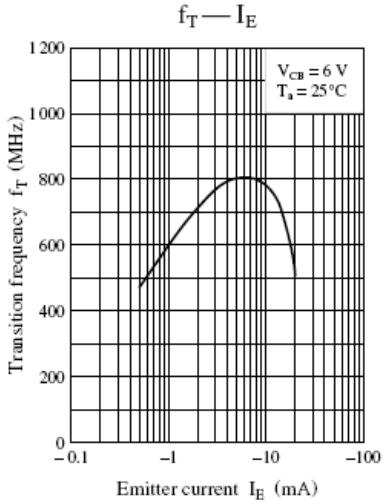
$V_{CE(sat)}$ — I_C



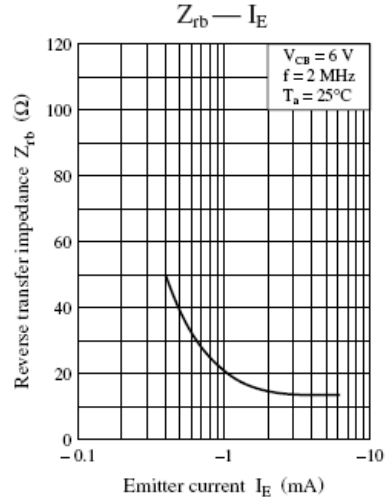
h_{FE} — I_C



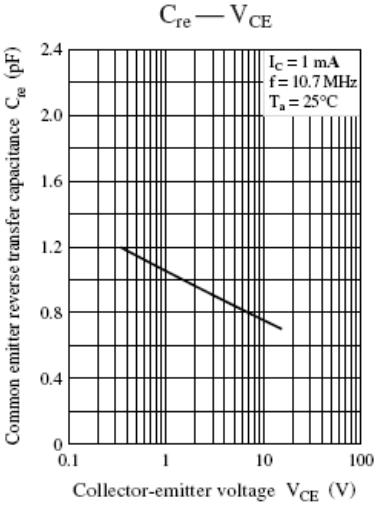
f_T — I_E



Z_{rb} — I_E



C_{re} — V_{CE}



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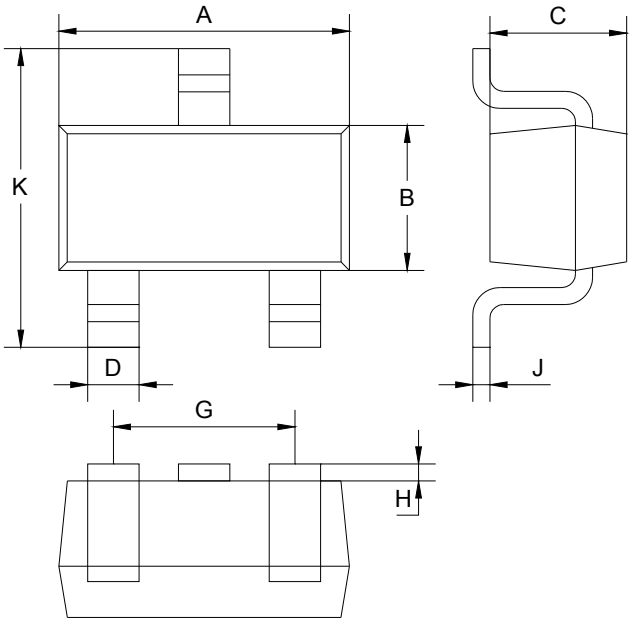
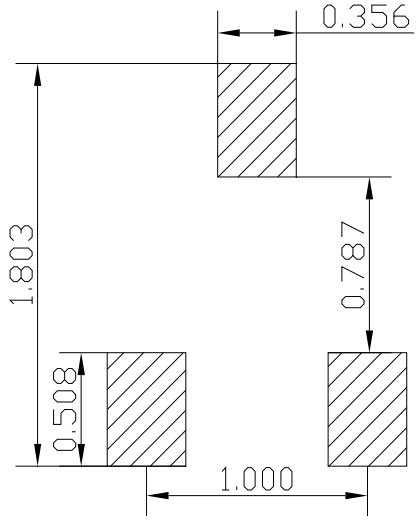
PACKAGE OUTLINE

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
2SC4627	SOT-523	3000/Tape&Reel