

NPN High-frequency Transistor

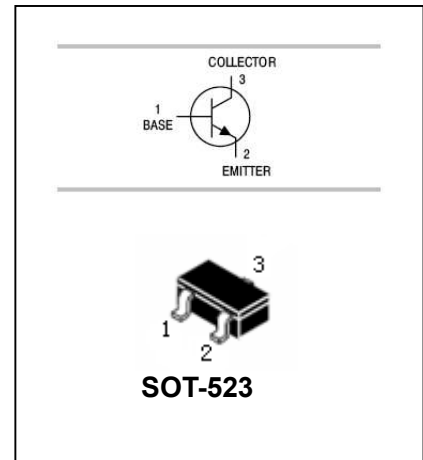
2SC4627

FEATURES

- Optimum for RF amplification of FM/AM radios.
- High frequency voltage f_T .
- SS-Mini type package, allowing downsizing of the equipment and automatic insertion through the type.



Lead-free



APPLICATIONS

- General purpose switching and amplification.

ORDERING INFORMATION

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

MAXIMUM RATING @ Ta=25°C 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	°C

NPN High-frequency Transistor

2SC4627

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=10\mu A, I_E=0$	30			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=10\mu A, I_C=0$	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

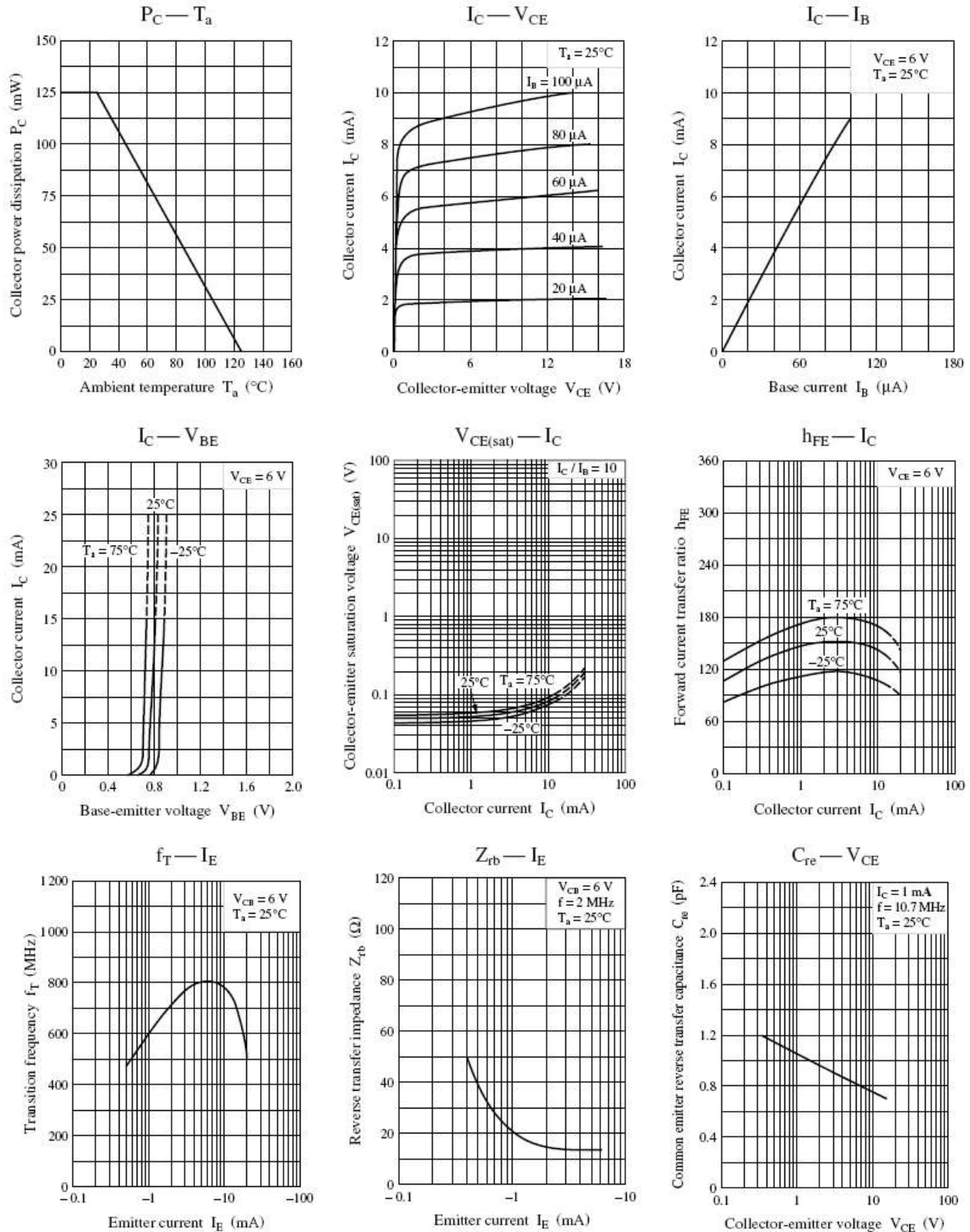
CLASSIFICATION OF H_{FE}

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

NPN High-frequency Transistor

2SC4627

TYPICAL CHARACTERISTICS @ $T_a = 25^\circ\text{C}$ unless otherwise specified



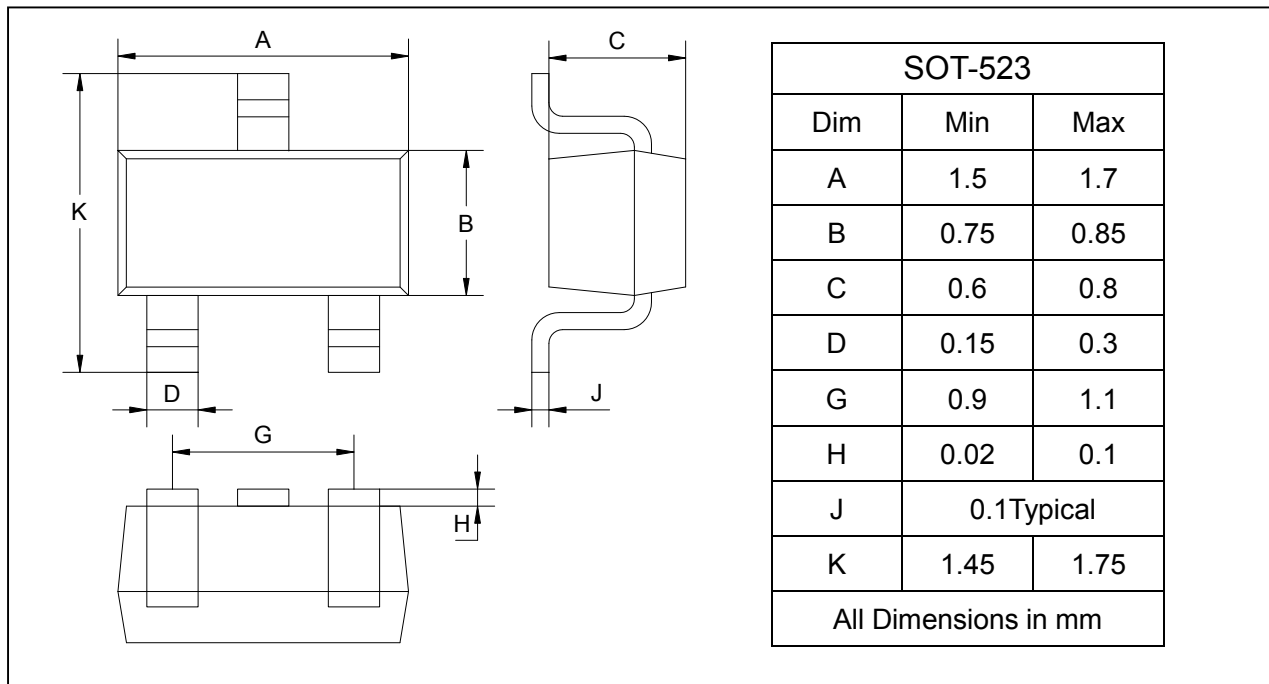
NPN High-frequency Transistor

2SC4627

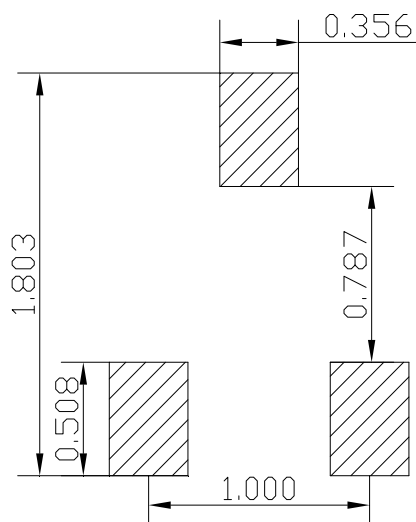
PACKAGE OUTLINE

Plastic surface mounted package

SOT-523



SOLDERING FOOTPRINT



Unit : mm

PACKAGE INFORMATION

Device	Package	Shipping
2SC4627	SOT-523	3000/Tape&Reel