



## NPN Silicon Epitaxial Planar Transistor

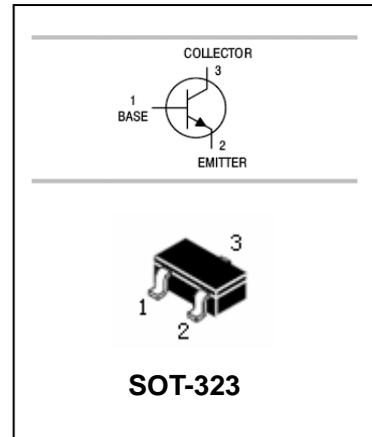
## 2SC4562

### FEATURES

- High transition frequency  $f_T$ .
- Small collector output capacitance(Common Base,input circuited)  $C_{ob}$ .
- S-Mini type package,allowing downsizing of the equipment And automatic insertion through the tape packing.



Lead-free



### APPLICATIONS

- For high-frequency amplification.
- Complementary to 2SA1748.

### ORDERING INFORMATION

Type No.	Marking	Package Code
2SC4562	AM	SOT-323

### MAXIMUM RATING @ $T_a=25^\circ\text{C}$ unless otherwise specified

Symbol	Parameter	Value	Units
$V_{CBO}$	Collector-Base Voltage	50	V
$V_{CEO}$	Collector-Emitter Voltage	50	V
$V_{EBO}$	Emitter-Base Voltage	5	V
$I_C$	Collector Current -Continuous	50	mA
$P_C$	Collector Dissipation	150	mW
$T_j, T_{stg}$	Junction and Storage Temperature	-55 to +150	$^\circ\text{C}$



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**ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified**

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=10\mu A, I_E=0$	50			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=1mA, I_B=0$	50			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=10\mu A, I_C=0$	5			V
Collector-base cut-off current	$I_{CBO}$	$V_{CB}=10V, I_E=0$			0.1	$\mu A$
Collector-emitter cut-off current	$I_{CEO}$	$V_{CE}=10V, I_B=0$			100	$\mu A$
DC current gain	$h_{FE}$	$V_{CE}=10V, I_C=2mA$	200		500	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=10mA, I_B=1mA$		0.06	0.30	V
Collector output capacitance	$C_{ob}$	$V_{CB}=10V, I_E=0,$ $f=1MHz$		1.5		pF
Transition frequency	$f_T$	$V_{CE}=6V, I_E=1mA$	260	550		MHz

**CLASSIFICATION OF  $h_{FE}$**

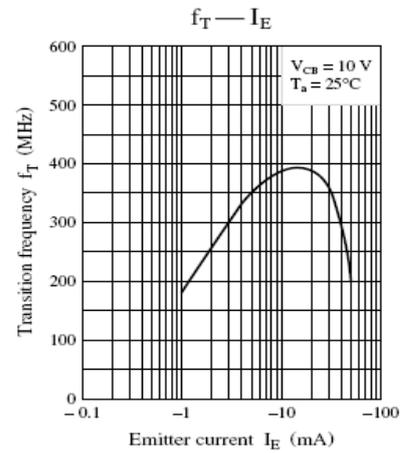
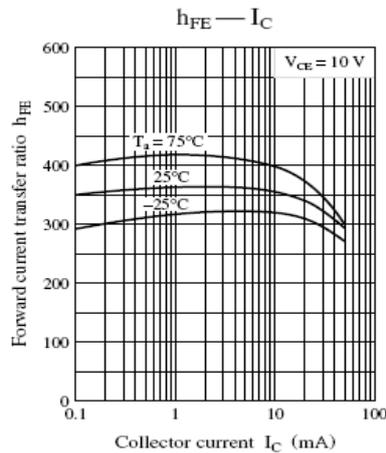
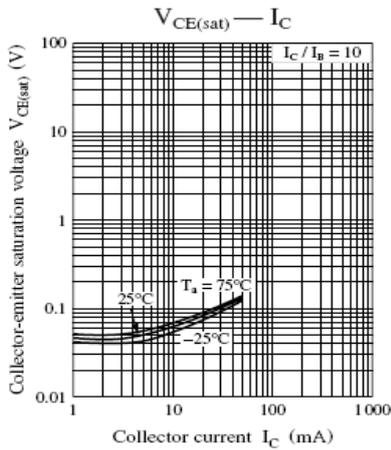
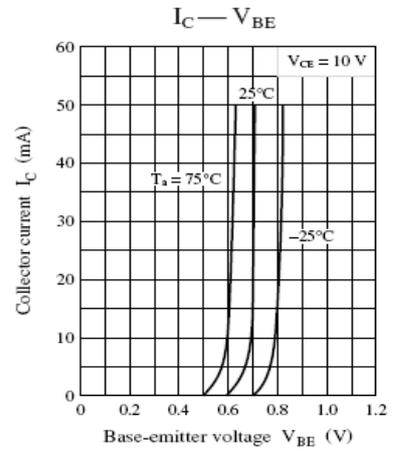
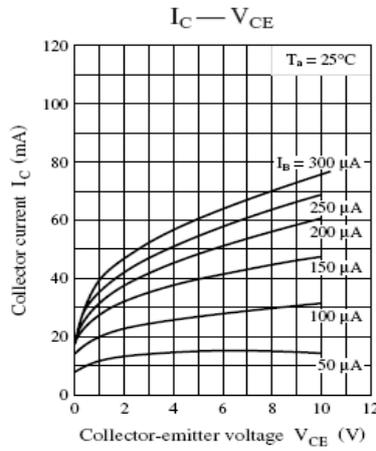
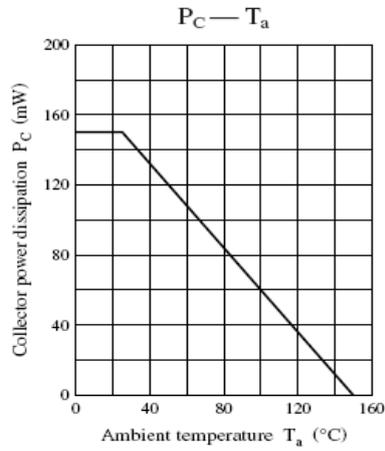
Marking	Q	R
$h_{FE}$	200-400	250-500



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



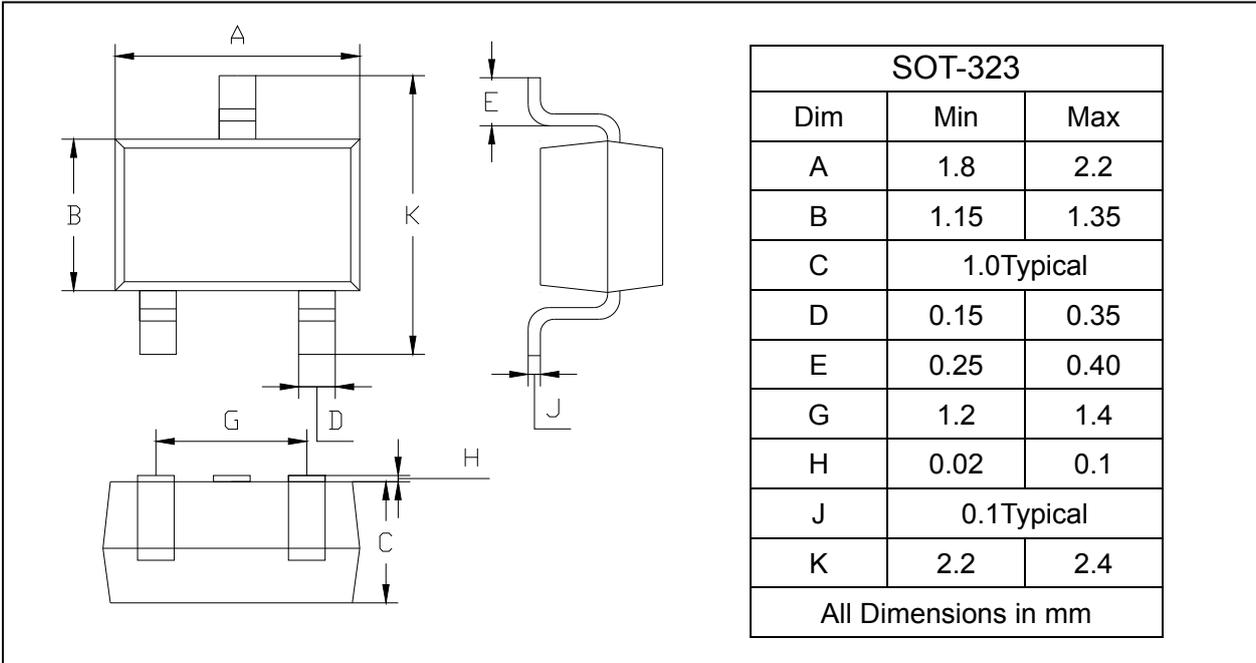
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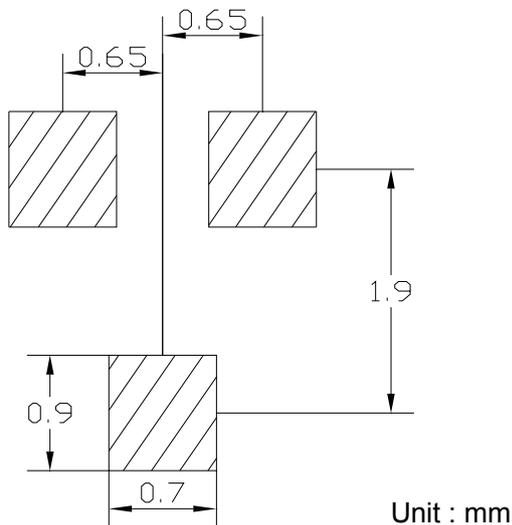
**PACKAGE OUTLINE**

Plastic surface mounted package

SOT-323



**SOLDERING FOOTPRINT**



**PACKAGE INFORMATION**

Device	Package	Shipping
2SC4562	SOT-323	3000/Tape&Reel