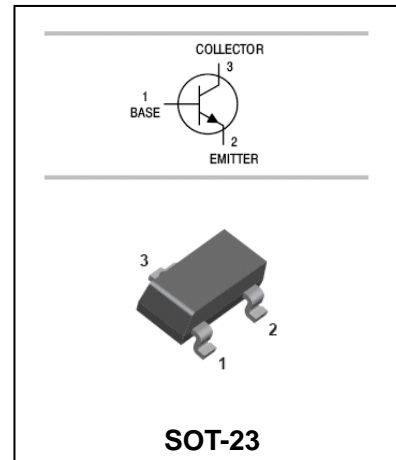


Silicon Epitaxial Planar Transistor

2SC5343

FEATURES

- Excellent h_{FE} linearity
 $:h_{FE(2)}=100(\text{Typ})$ at $V_{CE}=6V, I_C=150\text{mA}$
 $:h_{FE}(I_C=0.1\text{mA})/h_{FE}(I_C=2\text{mA})=0.95(\text{Typ})$.
- Low noise: $NF=1\text{Db}(\text{Typ})$. at $f=1\text{KHz}$.
- Complementary pair with 2SA1980S.



APPLICATIONS

- General small signal amplifier.

ORDERING INFORMATION

Type No.	Marking	Package Code
2SC5343	5343	SOT-23

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

Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage	60	V
V_{CEO}	Collector-Emitter Voltage	50	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current -Continuous	150	mA
I_B	Base Current-Continuous	50	mA
P_C	Collector Dissipation	200	mW
T_j, T_{stg}	Junction and Storage Temperature	-55~150	$^\circ\text{C}$

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

Silicon Epitaxial Planar Transistor**2SC5343**

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=100\mu A, I_E=0$	60			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=10mA, I_B=0$	50			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=10\mu A, I_C=0$	5			V
Collector cut-off current	I_{CBO}	$V_{CB}=60V, I_E=0$			0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=5V, I_C=0$			0.1	μA
DC current gain	h_{FE}	$V_{CE}=6V, I_C=2mA$	70		700	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=100mA, I_B=10mA$		0.1	0.25	V
Transition frequency	f_T	$V_{CE}=10V, I_C=1mA$	80			MHz
Output capacitance	C_{ob}	$V_{CB}=10V, I_E=0, f=1MHz$		2	3.5	pF
Noise Figure	NF	$V_{CE}=6V, I_C=0.1mA, f=1kHz$ $R_g=10K\Omega$			10	dB

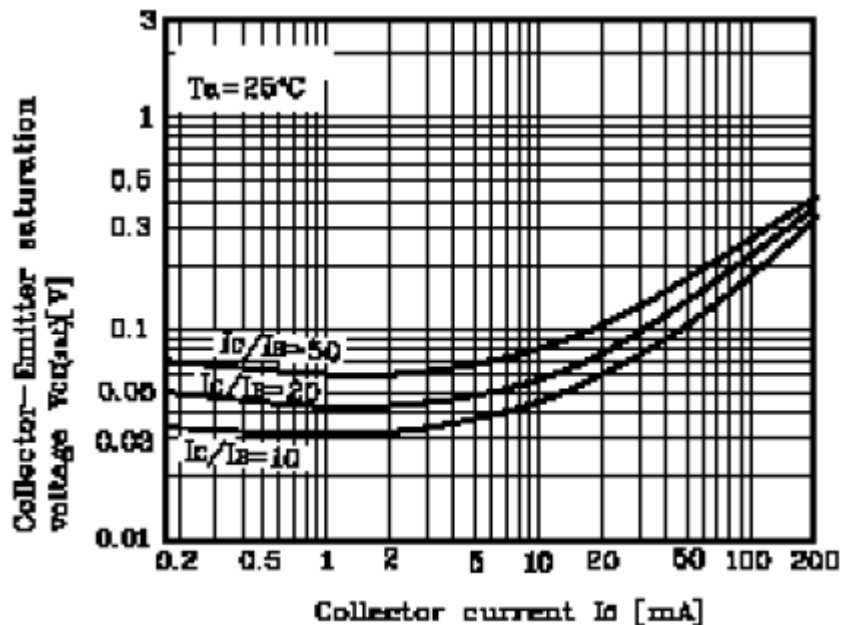
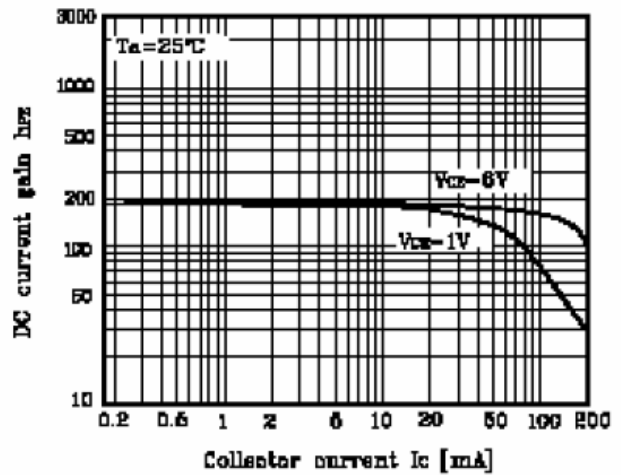
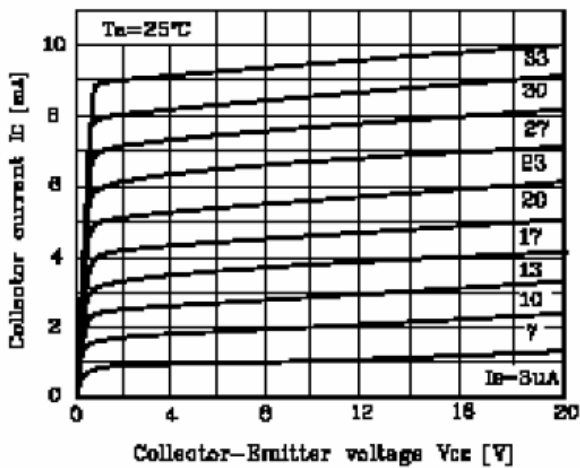
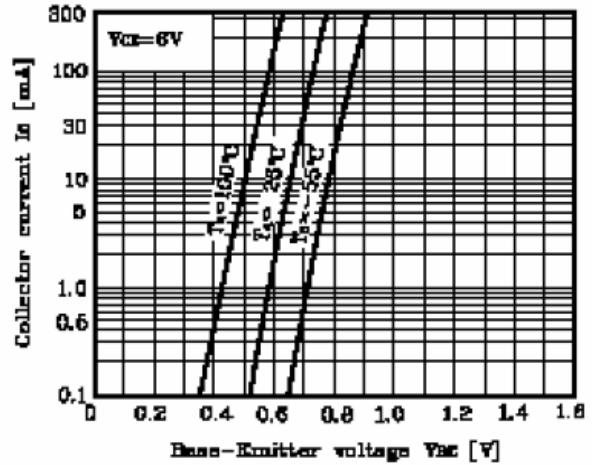
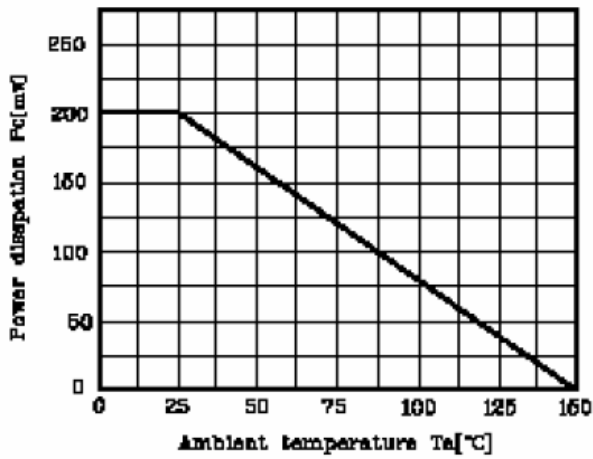
CLASSIFICATION OF $h_{FE(1)}$

Rank	O	Y	G	L
Range	70-140	120-240	200-400	300-700

Silicon Epitaxial Planar Transistor

2SC5343

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



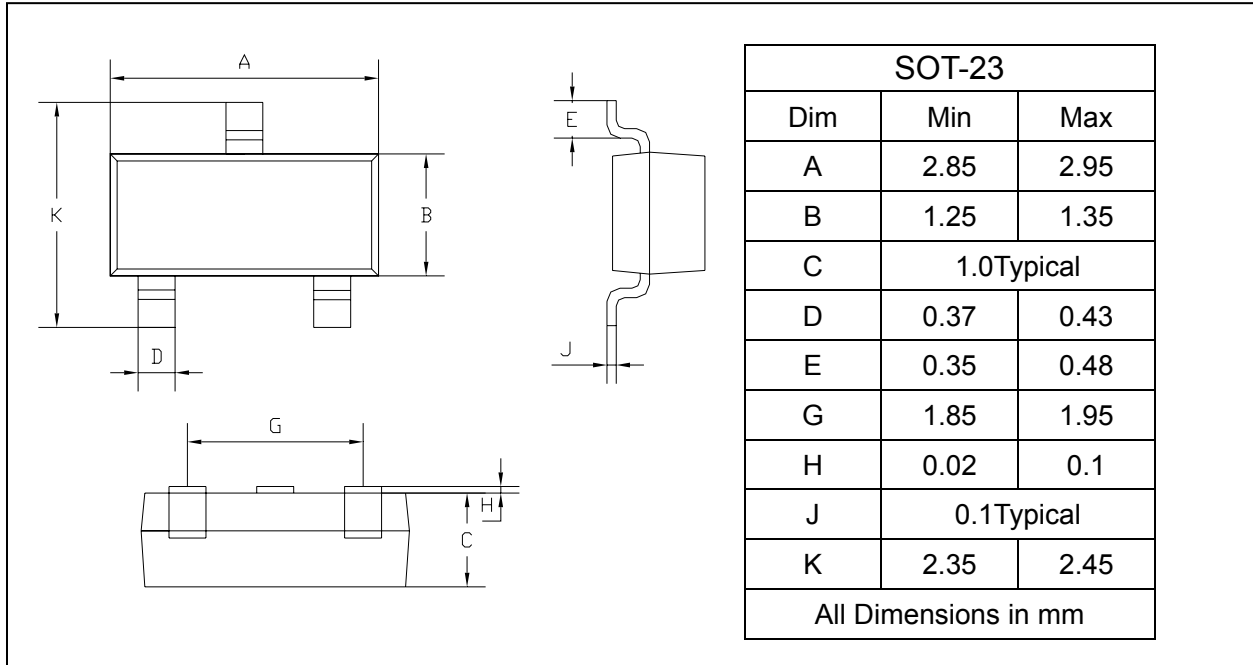
Silicon Epitaxial Planar Transistor

2SC5343

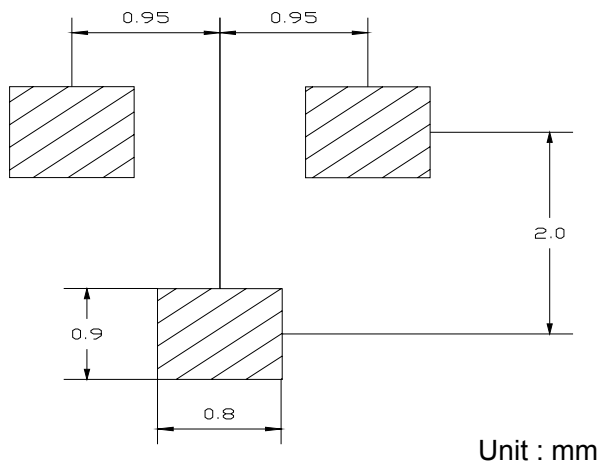
PACKAGE OUTLINE

Plastic surface mounted package

SOT-23



SOLDERING FOOTPRINT



PACKAGE INFORMATION

Device	Package	Shipping
2SC5343	SOT-23	3000/Tape&Reel

www.s-manuals.com