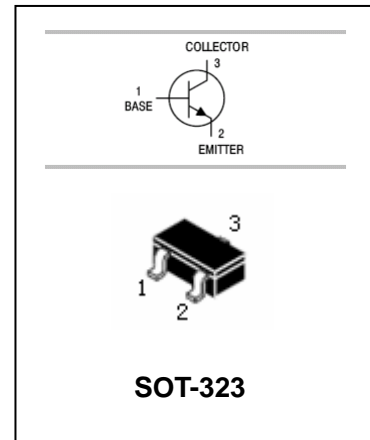


## Silicon Epitaxial Planar Transistor

## 2SC4155A

### FEATURES

- Small collector to emitter saturation voltage  
VCE(sat)=0.3V max
- Excellent linearity of DC forward gain.
- Super mini package for easy mounting



### APPLICATIONS

- For Hybrid IC, small type machine low frequency voltage Amplify application.

### ORDERING INFORMATION

Type No.	Marking	Package Code
2SC4155A	HQ/HR/HS	SOT-323

### MAXIMUM RATING @ Ta=25°C unless otherwise specified

Symbol	Parameter	Value	Units
V <sub>CBO</sub>	Collector-Base Voltage	50	V
V <sub>CEO</sub>	Collector-Emitter Voltage	50	V
V <sub>EBO</sub>	Emitter-Base Voltage	6	V
I <sub>C</sub>	Collector Current -Continuous	200	mA
P <sub>C</sub>	Collector Dissipation	200	mW
T <sub>stg</sub>	Storage Temperature	-55 to +150	°C
T <sub>j</sub>	Junction Temperature	150	°C



**Silicon Epitaxial Planar Transistor**

**2SC4155A**

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

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=100\mu A, I_E=0$	50	-	-	V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=100\mu A, I_B=0$	50	-	-	V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=100\mu A, I_C=0$	6	-	-	V
Collector cut-off current	$I_{CBO}$	$V_{CB}=50V, I_E=0$	-	-	0.1	$\mu A$
Emitter cut-off current	$I_{EBO}$	$V_{EB}=4V, I_C=0$	-	-	0.1	$\mu A$
DC current gain	$h_{FE(1)}$	$V_{CE}=6V, I_C=1mA$	120	-	560	
	$h_{FE(2)}$	$V_{CE}=6V, I_C=0.1mA$	70	-	-	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_{CE}=100mA, I_B=10mA$	-	-	0.3	V
Transition frequency	$f_T$	$V_{CE}=6V, I_C= -10mA$	-	200	-	MHz
Collector output capacitance	$C_{ob}$	$V_{CB}=6V, I_E=0, f=1MHz$	-	4	-	pF
Noise Figure	NF	$V_{CE}=6V, I_E=-0.1mA, f=1kHz, R_G=2k\Omega$	-	-	15	dB

**CLASSIFICATION OF  $h_{FE(1)}$**

Range	Q	R	S
Range	120-270	180-390	270-560
Marking	HQ	HR	HS



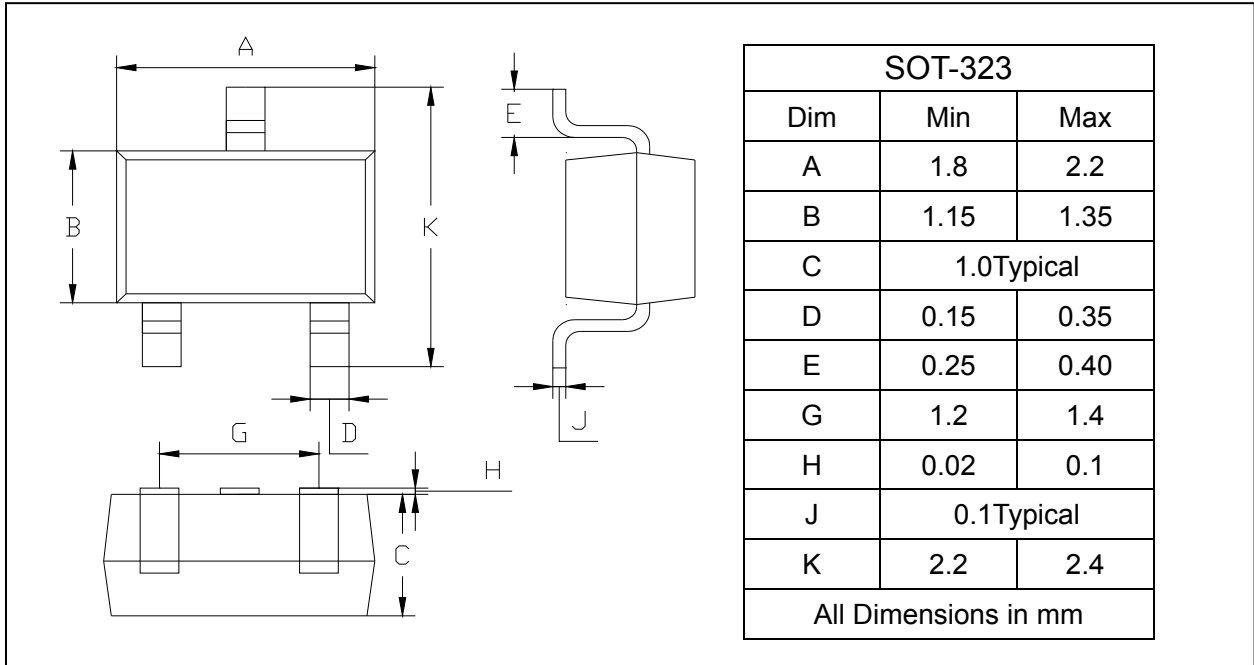
**Silicon Epitaxial Planar Transistor**

**2SC4155A**

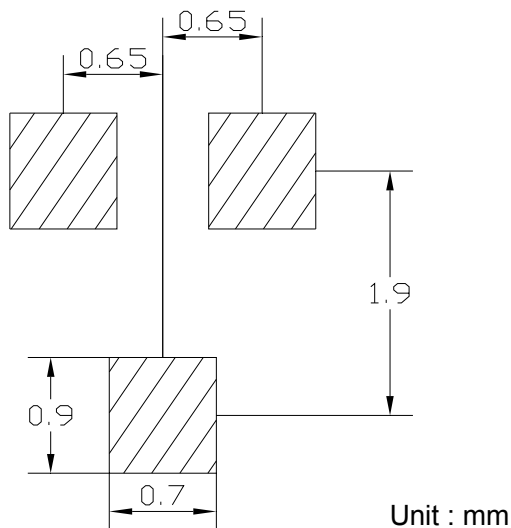
**PACKAGE OUTLINE**

Plastic surface mounted package

SOT-323



**SOLDERING FOOTPRINT**



**PACKAGE INFORMATION**

Device	Package	Shipping
2SC4155A	SOT-323	3000/Tape&Reel