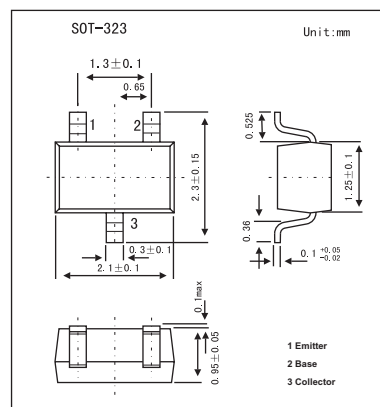


## General Small Signal Amplifier

## 2SC5343UF

## ■ Features

- Low collector saturation voltage :  $V_{CE}=0.25V(\text{Max.})$
- Low output capacitance :  $C_{ob}=2pF(\text{Typ.})$

■ Absolute Maximum Ratings  $T_a = 25^\circ\text{C}$ 

Parameter	Symbol	Rating	Unit
Collector-base voltage	$V_{CBO}$	60	V
Collector-emitter voltage	$V_{CEO}$	50	V
Emitter-base voltage	$V_{EBO}$	5	V
Collector current	$I_C$	150	mA
Collector dissipation	$P_C$	200	mW
Junction temperature	$T_j$	150	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-55 to +150	$^\circ\text{C}$

■ Electrical Characteristics  $T_a = 25^\circ\text{C}$ 

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector-base breakdown voltage	$BV_{CBO}$	$I_C=100\mu A, I_E=0$	60			V
Collector-emitter breakdown voltage	$BV_{CEO}$	$I_C=1mA, I_B=0$	50			V
Emitter-base breakdown voltage	$BV_{EBO}$	$I_E=10\mu A, I_C=0$	5			V
Collector cutoff current	$I_{CBO}$	$V_{CB}=60V, I_E=0$			0.1	$\mu A$
Emitter cutoff current	$I_{EBO}$	$V_{EB}=5V, I_C=0$			0.1	$\mu A$
DC current transfer ratio	$h_{FE}$	$V_{CE}=6V, I_C=2mA$	70		700	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C/I_B=100mA/10mA$			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

## ■ hFE Classification

Marking	D			
	O	Y	G	L
hFE	70~140	120~240	200~400	300~700