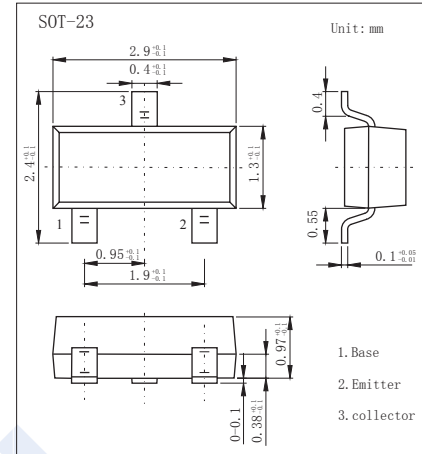


## NPN Transistors

## 2SC3326

## ■ Features

- Collector Current Capability  $I_C=300\text{mA}$
- Collector Emitter Voltage  $V_{CE0}=20\text{V}$

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

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	$V_{CB0}$	50	V
Collector - Emitter Voltage	$V_{CE0}$	20	
Emitter - Base Voltage	$V_{EB0}$	25	
Collector Current - Continuous	$I_C$	300	mA
Base Current	$I_B$	60	
Collector Power Dissipation	$P_C$	150	mW
Junction Temperature	$T_J$	125	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	-55 to 125	

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	$V_{CB0}$	$I_C = 100\ \mu\text{A}, I_E = 0$	50			V
Collector- emitter breakdown voltage	$V_{CE0}$	$I_C = 1\ \text{mA}, I_B = 0$	20			
Emitter - base breakdown voltage	$V_{EB0}$	$I_E = 100\ \mu\text{A}, I_C = 0$	25			
Collector-base cut-off current	$I_{CBO}$	$V_{CB} = 50\text{V}, I_E = 0$			0.1	$\mu\text{A}$
Emitter cut-off current	$I_{EBO}$	$V_{EB} = 25\text{V}, I_C = 0$			0.1	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = 30\ \text{mA}, I_B = 3\ \text{mA}$			0.1	V
Base - emitter saturation voltage	$V_{BE(sat)}$	$I_C = 30\ \text{mA}, I_B = 3\ \text{mA}$			1.2	
Base - emitter voltage	$V_{BE}$	$V_{CE} = 2\text{V}, I_C = 4\ \text{mA}$		0.61		
DC current gain	$h_{FE}$	$V_{CE} = 2\text{V}, I_C = 4\ \text{mA}$	200		1200	
Turn-on time	$t_{on}$	<p>DUTY CYCLE <math>\leq 2\%</math></p>		160	ns	
Storage time	$t_{stg}$					500
Fall time	$t_{stg}$					130
Collector output capacitance	$C_{ob}$	$V_{CB} = 10\text{V}, I_E = 0, f = 1\text{MHz}$			7	pF
Transition frequency	$f_T$	$V_{CE} = 6\text{V}, I_C = 4\ \text{mA}$		30		MHz

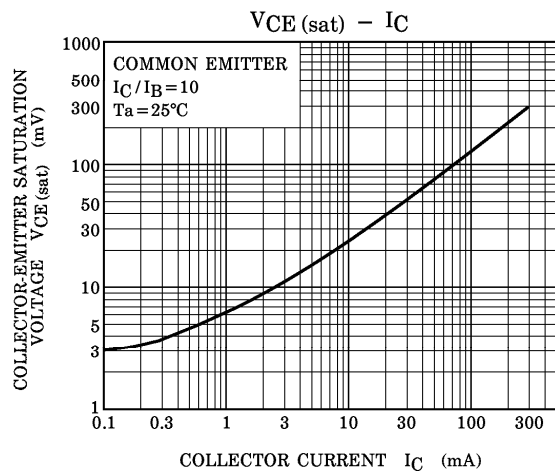
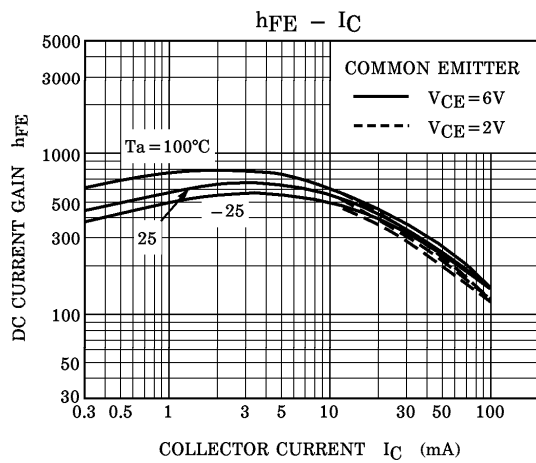
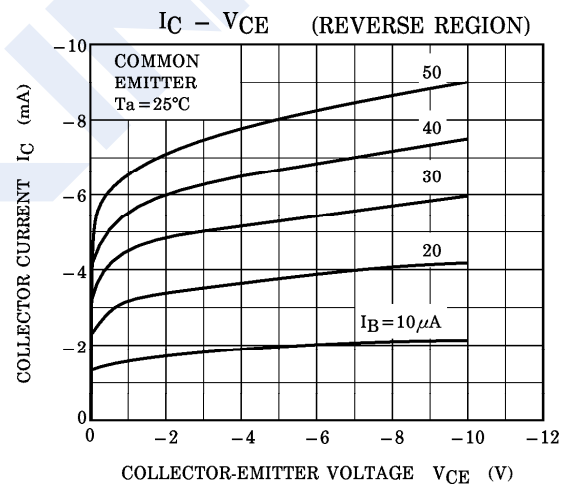
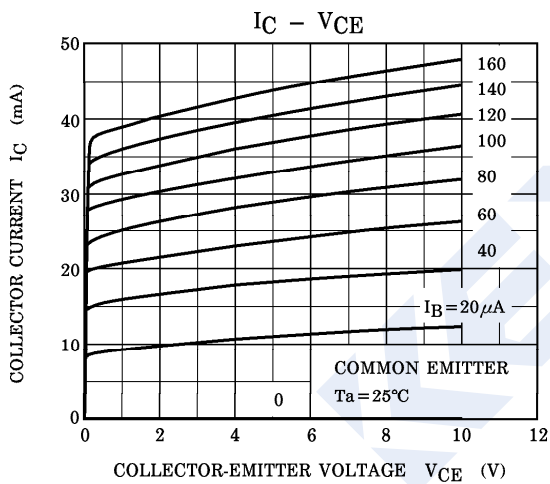
## NPN Transistors

### 2SC3326

■ Classification of hfe

Type	2SC3326-A	2SC3326-B
Range	200-700	350-1200
Marking	CC A	CC B

■ Typical Characteristics



### NPN Transistors

### 2SC3326

■ Typical Characteristics

