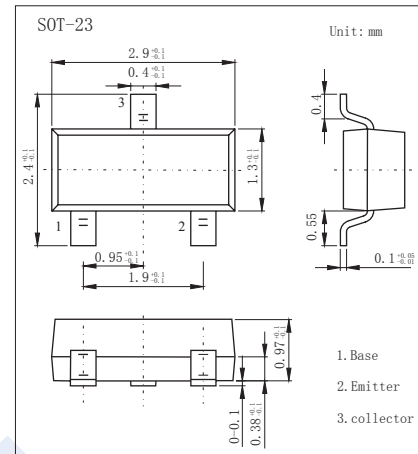


## NPN Transistors

### 2SC2732

#### ■ Features

- Collector Current Capability  $I_c=20\text{mA}$
- Collector Emitter Voltage  $V_{CE0}=25\text{V}$



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

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	$V_{CB0}$	30	V
Collector - Emitter Voltage	$V_{CE0}$	25	
Emitter - Base Voltage	$V_{EB0}$	4	
Collector Current - Continuous	$I_c$	20	mA
Collector Power Dissipation	$P_c$	150	mW
Junction Temperature	$T_J$	150	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	-55 to 150	

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	$V_{CB0}$	$I_c = 100 \mu\text{A}, I_E = 0$	30			V
Collector- emitter breakdown voltage	$V_{CE0}$	$I_c = 1\text{mA}, I_B = 0$	25			
Emitter - base breakdown voltage	$V_{EB0}$	$I_E = 100 \mu\text{A}, I_c = 0$	4			
Collector-base cut-off current	$I_{CB0}$	$V_{CB} = 20\text{V}, I_E = 0$			0.1	$\mu\text{A}$
Emitter cut-off current	$I_{EB0}$	$V_{EB} = 4\text{V}, I_c = 0$			0.1	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_c = 10\text{mA}, I_B = 1\text{mA}$			0.5	V
Base - emitter saturation voltage	$V_{BE(sat)}$	$I_c = 10\text{mA}, I_B = 1\text{mA}$			1.2	
DC current gain	$h_{FE}$	$V_{CE} = 10\text{V}, I_c = 3\text{mA}$	30			
Noise figure	NF	$V_{CC} = 12\text{V}, I_c = 1\text{mA}, f = 900\text{MHz}, f_{osc} = 930\text{MHz} (0\text{dBm}), f_{out} = 30\text{MHz}$		10		dB
Conversion gain	CG	$V_{CC} = 12\text{V}, I_c = 1\text{mA}, f = 900\text{MHz}, f_{osc} = 930\text{MHz} (0\text{dBm}), f_{out} = 30\text{MHz}$		7		
Collector output capacitance	$C_{ob}$	$V_{CB} = 10\text{V}, I_E = 0, f = 1\text{MHz}$			0.8	pF
Transition frequency	$f_T$	$V_{CE} = 10\text{V}, I_c = 5\text{mA}$	700			MHz

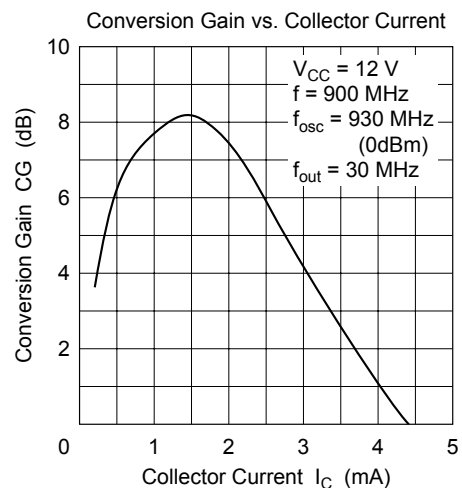
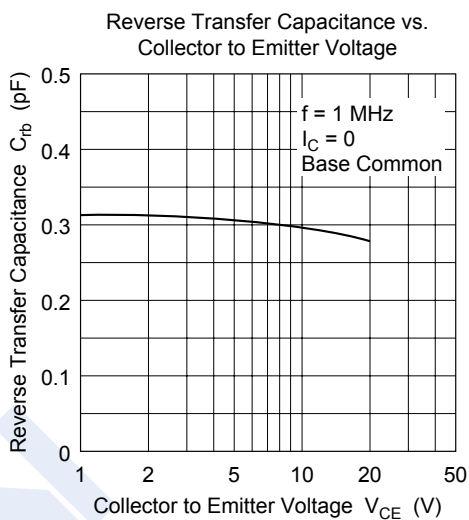
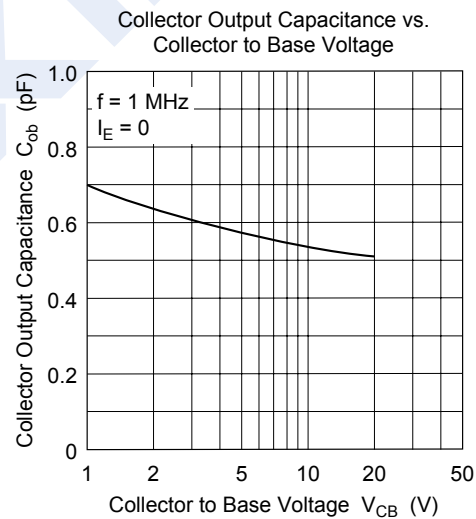
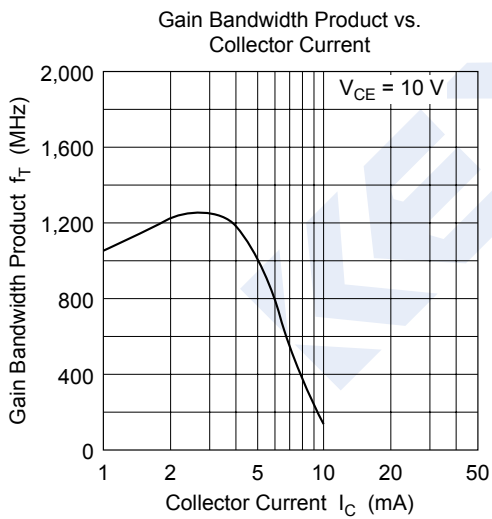
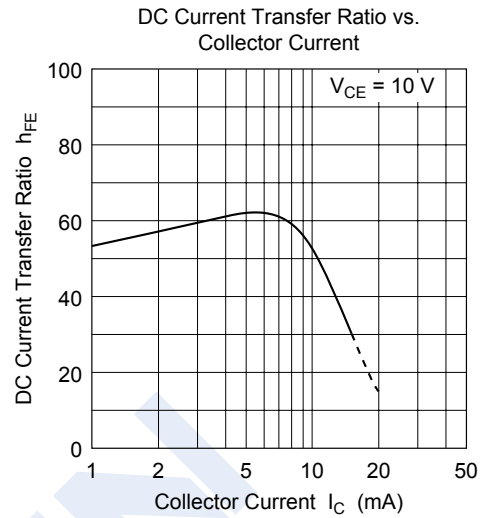
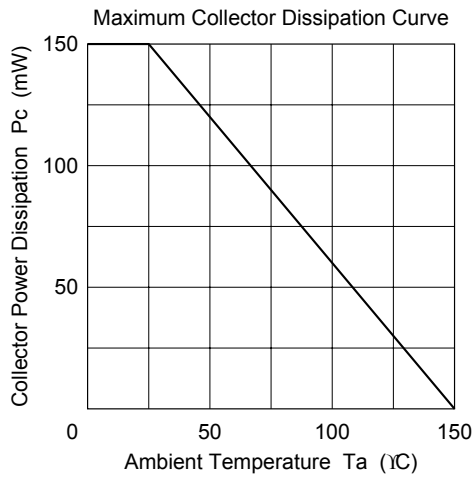
#### ■ Marking

Marking	EC
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## NPN Transistors

## 2SC2732

## ■ Typical Characteristics



## NPN Transistors

### 2SC2732

#### ■ Typical Characteristics

