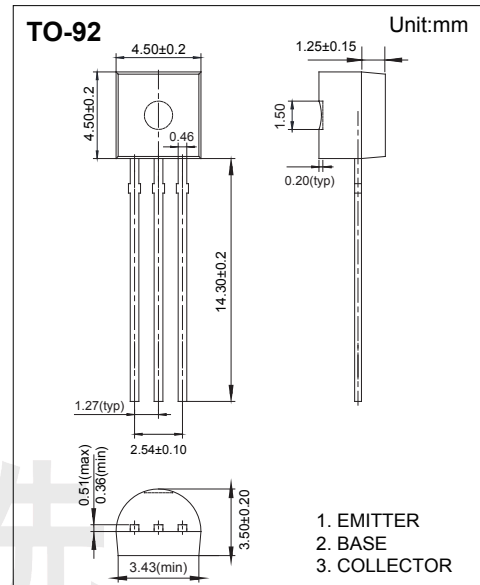


## PNP General Purpose Transistor BC327

### ■ Features

- High current (max. 500 mA)
- Low voltage (max. 45 V).



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

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	$V_{CB0}$	-50	V
Collector - Emitter Voltage	$V_{CE0}$	-45	
Emitter - Base Voltage	$V_{EB0}$	-5	
Collector Current - Continuous	$I_C$	-500	mA
Peak Collector Current	$I_{CM}$	-1	A
Peak Base Current	$I_{BM}$	-200	mA
Collector Power Dissipation	$P_C$	625	mW
Thermal Resistance From Junction to Ambient	$R_{\theta JA}$	0.2	K/mW
Junction Temperature	$T_J$	150	$^\circ\text{C}$
Operating Ambient Temperature	$T_{amb}$	-65 to 150	
Storage Temperature range	$T_{stg}$	-65 to 150	

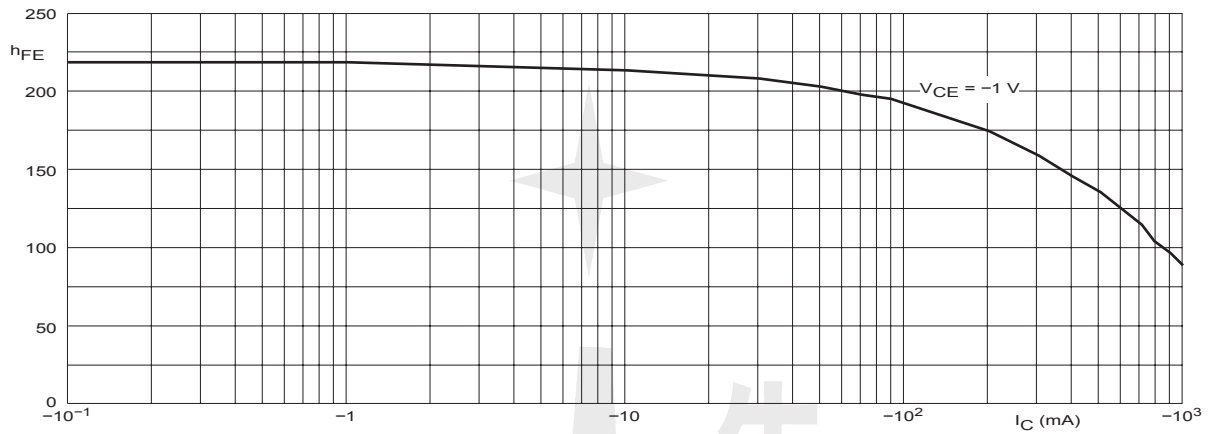
## PNP General Purpose Transistor BC327

■ 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	$V_{CE0}$	$I_C = -1 \text{ mA}, I_B = 0$	-45			
Emitter - base breakdown voltage	$V_{EB0}$	$I_E = -100 \mu\text{A}, I_C = 0$	-5			
Collector-base cut-off current	$I_{CBO}$	$V_{CB} = -20 \text{ V}, I_E = 0$			-100	nA
		$V_{CB} = -20 \text{ V}, I_E = 0, T_J = 25^\circ\text{C}$			-5	$\mu\text{A}$
Emitter cut-off current	$I_{EBO}$	$V_{EB} = -5 \text{ V}, I_C = 0$			-100	nA
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -500 \text{ mA}, I_B = -50 \text{ mA}$			-0.7	V
Base - emitter saturation voltage	$V_{BE(sat)}$	$I_C = -500 \text{ mA}, I_B = -50 \text{ mA}$			-1.2	
Base - emitter voltage	$V_{BE}$	$I_C = -500 \text{ mA}, V_{CE} = -1 \text{ V}$			-1.2	
DC current gain	BC327	$V_{CE} = -1 \text{ V}, I_C = -100 \text{ mA}$	100		600	
	BC327-16		100		250	
	BC327-25		160		400	
	BC327-40		250		600	
DC current gain	$h_{FE(2)}$	$V_{CE} = -1 \text{ V}, I_C = -500 \text{ mA}$ see Figs 1, 2 and 3	40			
Collector capacitance	$C_{ob}$	$I_E = I_C = 0, V_{CB} = -10 \text{ V}, f = 1 \text{ MHz}$		10		pF
Transition frequency	$f_T$	$V_{CE} = -5 \text{ V}, I_C = -10 \text{ mA}, f = 100 \text{ MHz}$	80			MHz

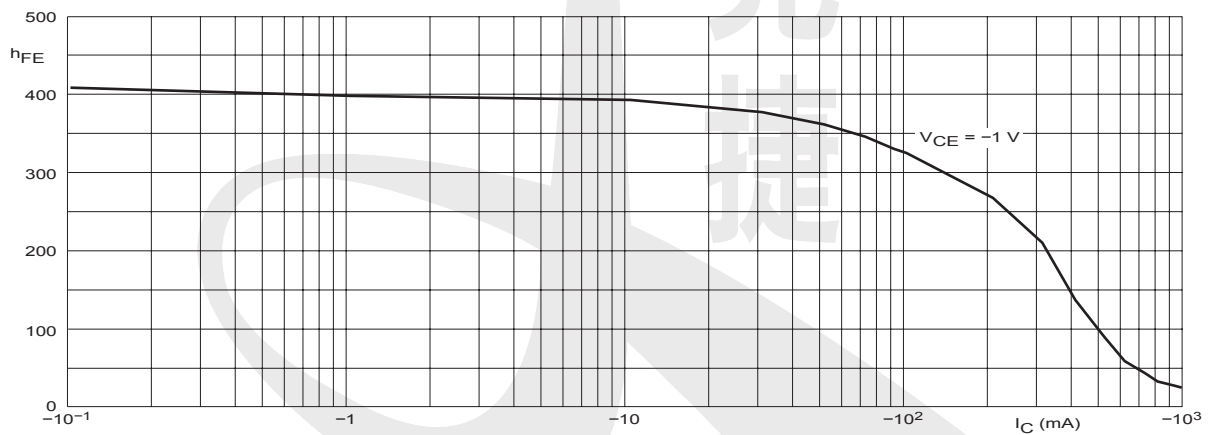
## PNP General Purpose Transistor BC327

### ■ Typical Characteristics



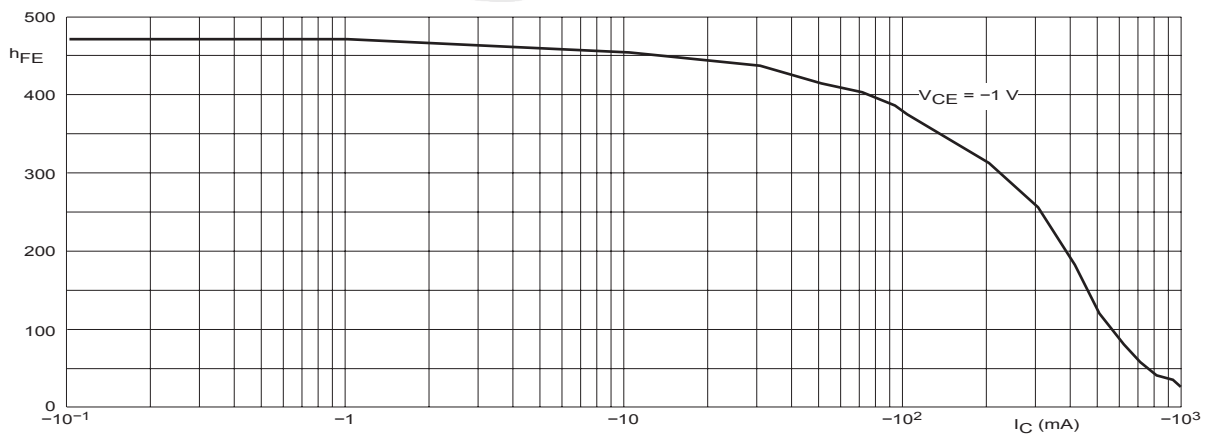
BC327-16.

Fig.1 DC current gain; typical values.



BC327-25.

Fig.2 DC current gain; typical values.



BC327-40.

Fig.3 DC current gain; typical values.