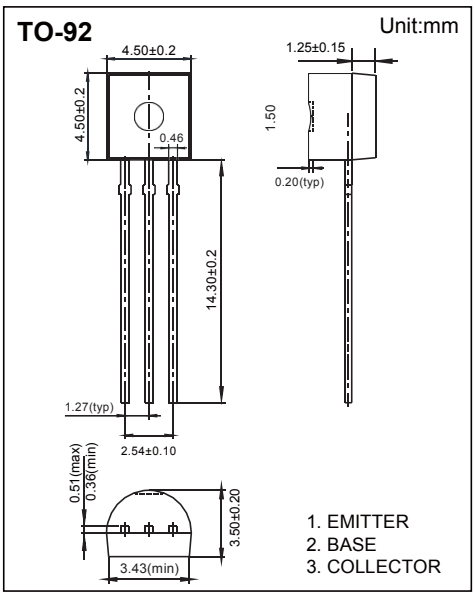
PNP General Purpose Transistor

BC327



■ Features

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

■ Absolute Maximum Ratings Ta = 25℃

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V_{CBO}	-50	V
Collector - Emitter Voltage	V_{CEO}	-45	
Emitter - Base Voltage	V_{EBO}	-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	℃
Operating Ambient Temperature	T_{amb}	-65 to 150	
Storage Temperature range	T_{stg}	-65 to 150	

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■ Electrical Characteristics Ta = 25℃

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collecto- base breakdown voltage	V_{CBO}	I_C= -100 μA， I_E=0	-50			V
Collector- emitter breakdown voltage	V_{CEO}	I_C= -1 mA， I_B=0	-45			
Emitter - base breakdown voltage	V_{EBO}	I_E= -100 μA， I_C=0	-5			
Collector-base cut-off current	I_{CBO}	V_{CB}= -20 V , I_E=0			-100	nA
		V_{CB}= -20 V , I_E=0 , T_J = 25℃			-5	μA
Emitter cut-off current	I_{EBO}	V_{EB}= -5V , I_C=0			-100	nA
Collector-emitter saturation voltage	$V_{CE(sat)}$	I_C=-500 mA, I_B=-50mA			-0.7	V
Base - emitter saturation voltage	$V_{BE(sat)}$	I_C=-500 mA, I_B=-50mA			-1.2	
Base - emitter voltage	V_{BE}	I_C = -500 mA, V_{CE} = -1V			-1.2	
DC current gain BC327	$h_{FE(1)}$	V_{CE}= -1V, I_C=-100mA	100		600	
DC current gain BC327-16			100		250	
DC current gain BC327-25			160		400	
DC current gain BC327-40			250		600	
DC current gain	$h_{FE(2)}$	V_{CE}= -1V, I_C=-500mA see Figs 1, 2 and 3	40			
Collector capacitance	C_{ob}	I_E=i_e=0,V_{CB}=-10V,f=1MHz		10		pF
Transition frequency	f_T	V_{CE}= -5V, I_C= -10mA,f=100MHz	80			MHz

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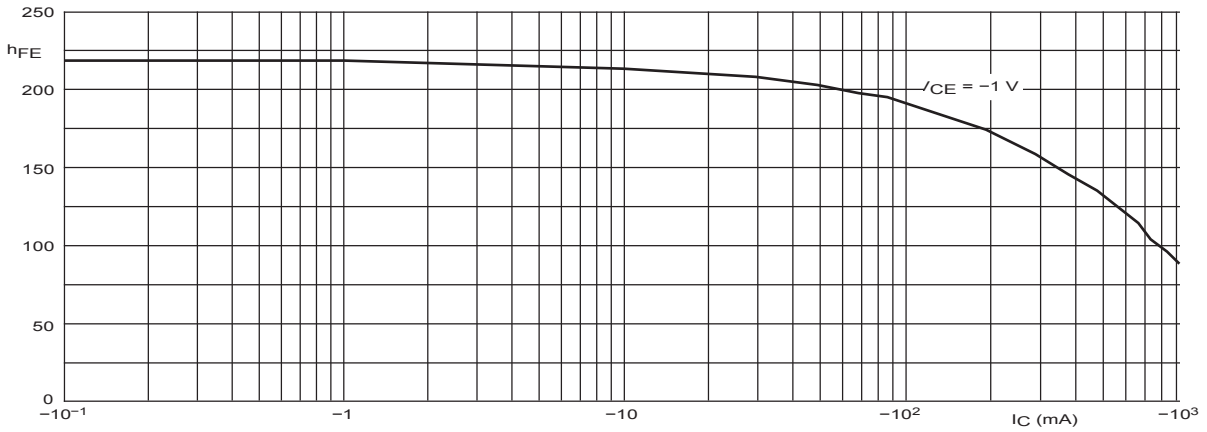
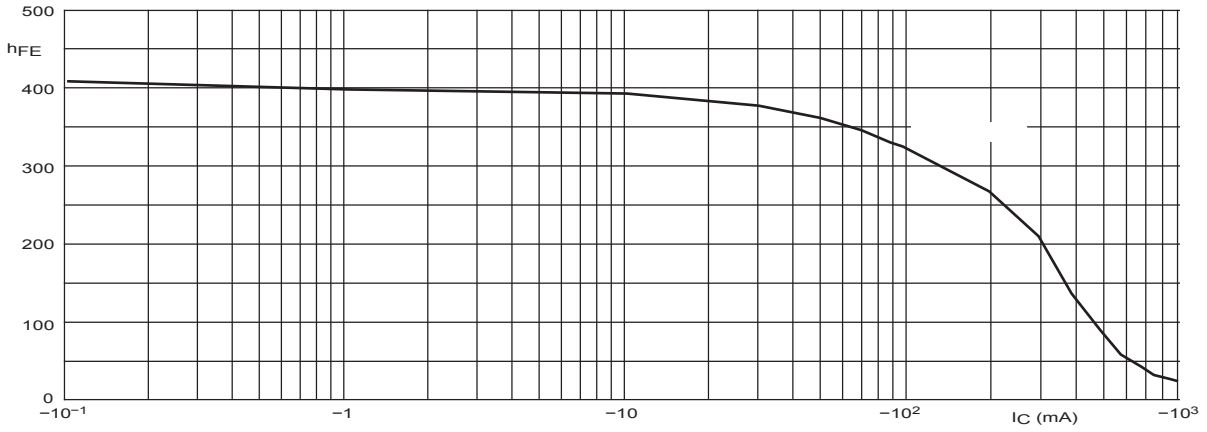
■ Typical Characterisitics



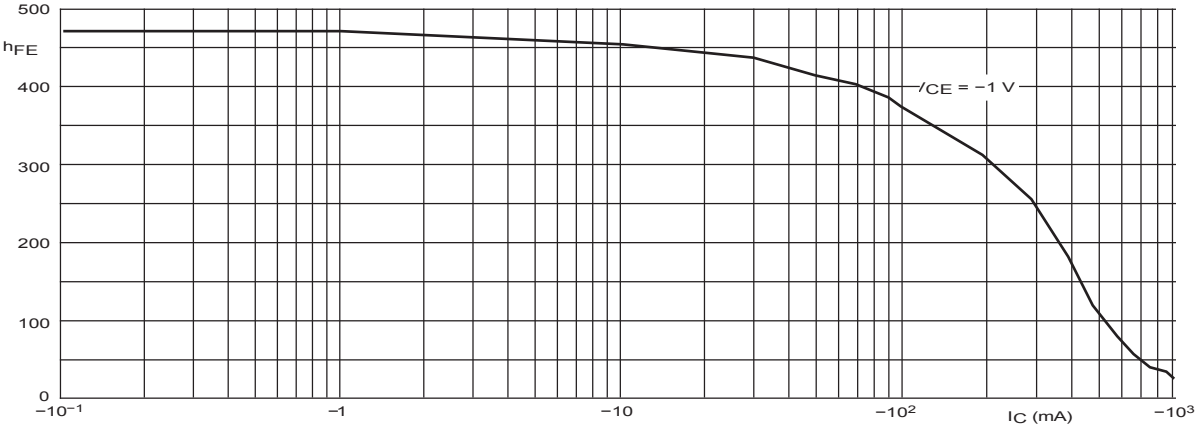
BC327-16.

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.