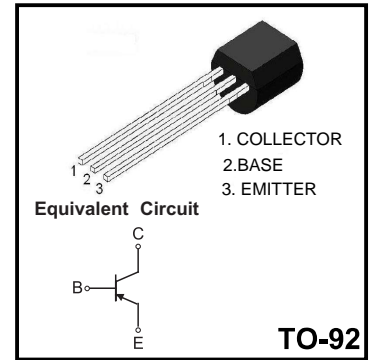


Plastic-Encapsulate Transistors
TRANSISTOR (PNP)
FEATURES

†Power dissipation


MAXIMUM RATINGS (Ta=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Collector-Base Voltage	BC327 BC328 V_{CBO}	-50 -30	V
Collector-Emitter Voltage	BC327 BC328 V_{CEO}	-45 -25	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current -Continuous	I_C	-800	mA
Collector Power Dissipation	P_C	625	mW
Operation Junction and Storage Temperature Range	T_J, T_{stg}	-55~+150	°C

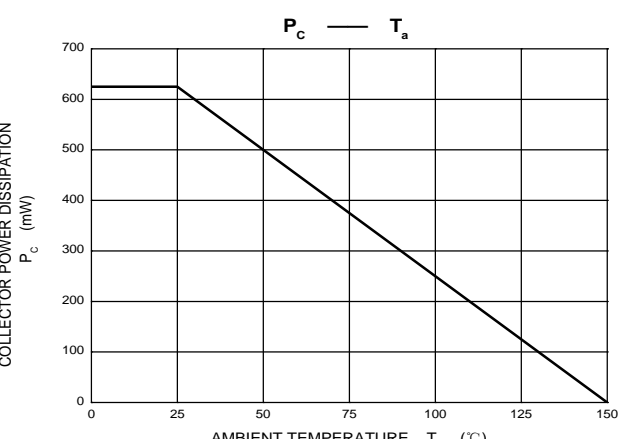
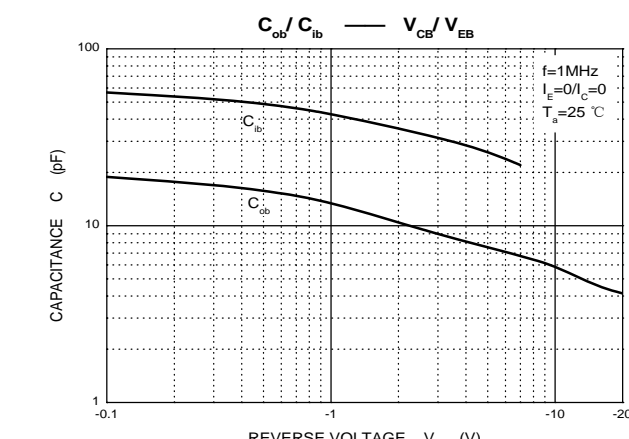
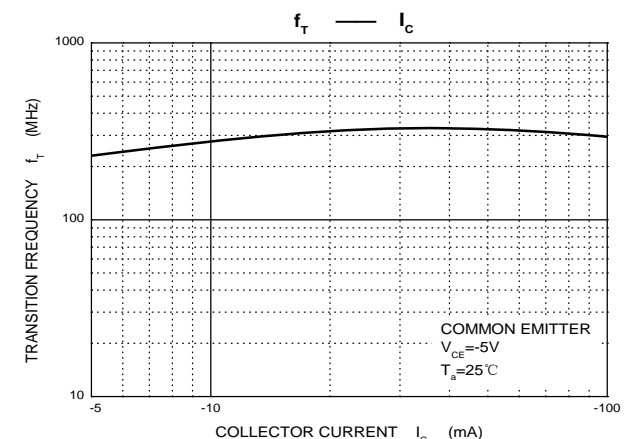
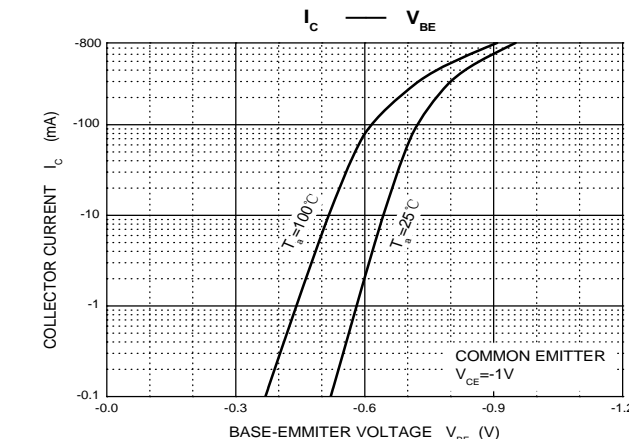
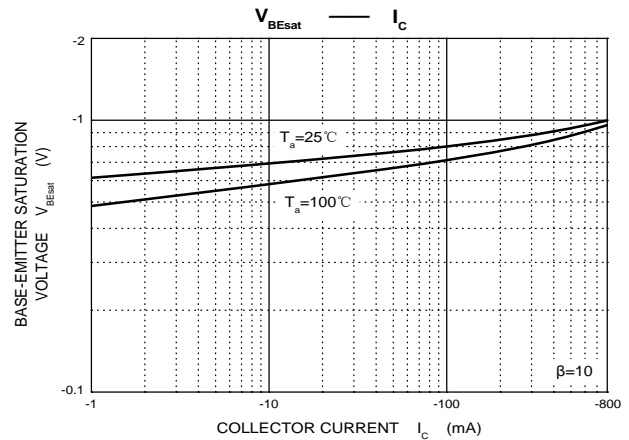
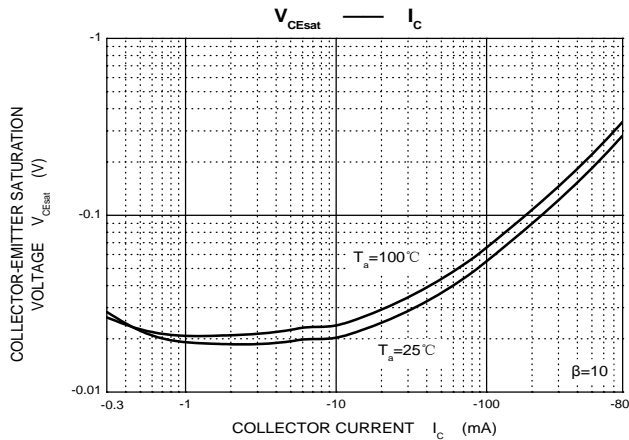
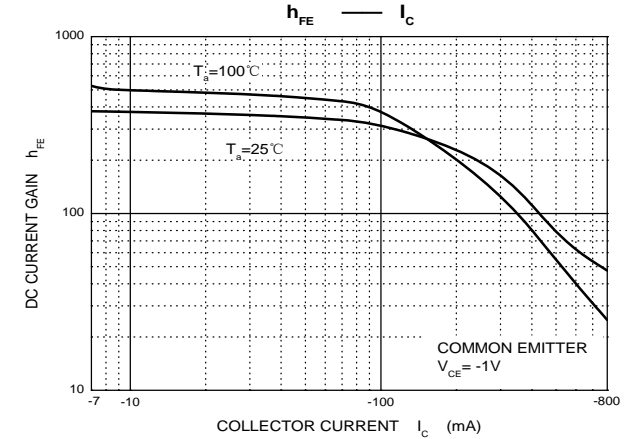
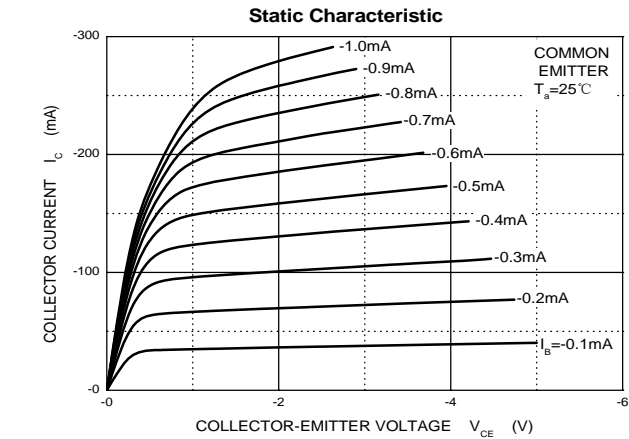
ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V_{CBO}	$I_C = -100\mu A, I_E = 0$	-50			V
BC327 BC328			-30			
Collector-emitter breakdown voltage	V_{CEO}	$I_C = -10mA, I_B = 0$	-45			V
BC327 BC328			-25			
Emitter-base breakdown voltage	V_{EBO}	$I_E = -10\mu A, I_C = 0$	-5			V
Collector cut-off current	I_{CBO}	$V_{CB} = -45V, I_E = 0$ $V_{CB} = -25V, I_E = 0$			-0.1	uA
BC327 BC328			-0.1			
Collector cut-off current	I_{CEO}	$V_{CE} = -40V, I_B = 0$ $V_{CE} = -20V, I_B = 0$			-0.2	uA
BC327 BC328			-0.2			
Emitter cut-off current	I_{EBO}	$V_{EB} = -4V, I_C = 0$			-0.1	uA
DC current gain	$h_{FE(1)}$	$V_{CE} = -1V, I_C = -100mA$	100		630	
	$h_{FE(2)}$	$V_{CE} = -1V, I_C = -300mA$	40			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -500mA, I_B = -50mA$			-0.7	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C = -500mA, I_B = -50mA$			-1.2	V
Base-emitter voltage	V_{BE}	$V_{CE} = -1V, I_C = -300mA$			-1.2	V
Transition frequency	f_T	$V_{CE} = -5V, I_C = -10mA$ $f = 100MHz$	260			MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = -10V, I_E = 0$ $f = 1MHz$		12		pF

CLASSIFICATION OF h_{FE}

Rank	16	25	40
Range	100-250	160-400	250-630

Typical Characteristics



Package Dimensions

TO-92

Symbol	Millimeter		Inches	
	Min.	Max.	Min.	Max.
A	3.30	3.70	0.130	0.146
A1	2.30	2.70	0.091	0.106
b	0.40	0.50	0.016	0.020
b1	0.50	0.70	0.020	0.028
c	0.35	0.45	0.014	0.018
D	4.45	4.70	0.175	0.185
E	4.40	4.65	0.173	0.183
e	1.17	1.37	0.046	0.054
e1	2.34	2.64	0.092	0.104
L	13.50	14.50	0.531	0.571
L1	1.80	2.20	0.071	0.087

ORDERING INFORMATION

Part Number	Package	Marking	Packing Method	Pack Quantity
BC327	TO-92	BC327 XXXXX	Bulk	1000pcs/Bag
BC327 TB	TO-92	BC327 XXXXX	Tape	2000pcs/Box
BC328	TO-92	BC328 XXXXX	Bulk	1000pcs/Bag
BC328 TB	TO-92	BC328 XXXXX	Tape	2000pcs/Box