

BC546/547/548/549/550

NPN Plastic-Encapsulate Transistors

1.Features

- Switching and Applications
- High Voltage: BC546, V_{CEO}=65V
- Low Noise: BC549, BC550
- Complement to BC556/557/558/559/BC560

2.Mechanical Data

- Case:Molded Plastic,TO-92
- Epoxy:UL 94V-0 rate flame retardant
- Terminals:Plated Leads Solderable per MIL-STD-750,Method-2026.
- Marking: marked on body.
- Mounting Position : Any.

3.Maximum Ratings and Electrical Characteristics

Rating at 25° C Cambient temperature unless otherwise specified

Parameters		Symbol	Value	Unit	
	BC546		80		
Collector-Base Voltage	BC547/550	BV _{CBO}	50	V	
	BC548/549		30		
	BC546		65		
Collector-Emitter Voltage	BC547/550	BV _{CEO}	45	V	
	BC548/549		30		
Emitter-Base Voltage	BC546	D\/	6	V	
	BC548/549/550	BV _{EBO}	5		
Collector Current		I _C	100	mA	
Collector Power Dissipation		Pc	500	mW	
Junction and Storage Temperature Range		Tj、T _{stg}	-55 to +150	°C	

4.Electrical Characteristics (TA=25 °C unless otherwise noted)

Parameters	Symbol	Cindition	Min	TYP	Max	Unit
Collector cut-off current	I _{CBO}	V _{CB} = 30V,I _E = 0	-	-	15	μA
Emitter cut-off current	I _{EBO}	V _{EB} = 5V,I _C = 0	-	-	15	μA
DC current gain	h _{FE}	V _{CE} = 5V,I _C = 2mA	110	-	800	-
Collector-emitter saturation voltage	V _{CE(sat)}	I _C = 10mA,I _B = 0.5mA		-	0.25	V
		I _C = 100mA,I _B = 5mA	7 -		0.6	
Base-emitter saturation voltage	N	I _C = 10mA,I _B = 0.5mA		-	1	V
	V _{BE(sat)}	I _C = 100mA,I _B = 5mA	7 -			
Output Capacitance	f _T	V _{CE} = 5V,I _B = -10mA	-	200	-	MHz
Emitter-base breakdown voltage	Cob	V _{CB} =10V,I _E =0, f=1MHz	-	-	6	pF

5.hFE Classification and Ordering Information

Classification	A	В	С
hFE	110-220	200-450	420-800
Marking	BC546A/547A/548A/549A/550A	BC546B/547B/548B/549B/550B	BC546C/547C/548C/549C/550C

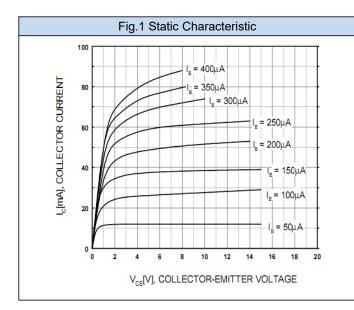


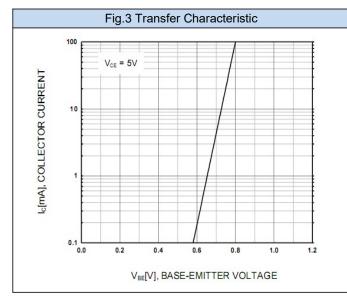


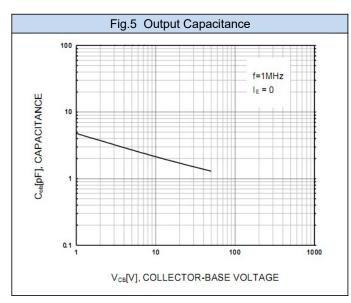
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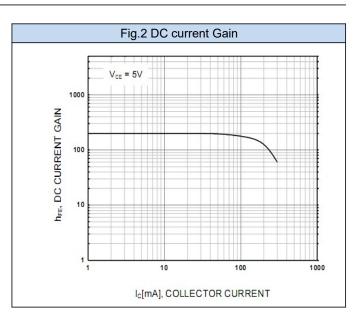
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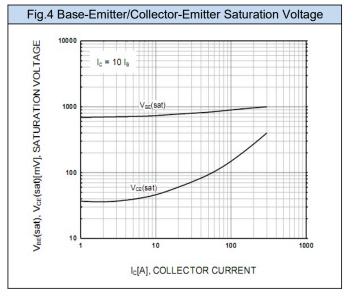
6.Rating And Characteristic Curves

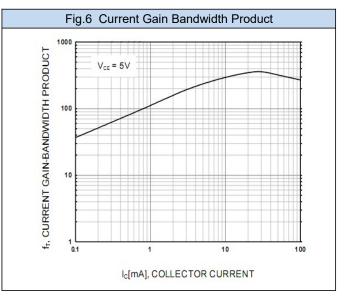








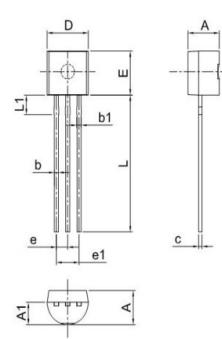






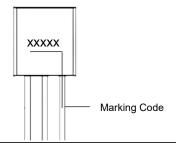
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Dimensions	Inches		Millimeters		
Dimensions	Min.	Max.	Min.	Max.	
А	0.130	0.146	3.30	3.70	
A1	0.083	0.106	2.10	2.70	
b	0.016	0.020	0.40	0.50	
b1	0.020	0.028	0.50	0.70	
С	0.014	0.018	0.35	0.45	
D	0.175	0.185	4.45	4.70	
E	0.173	0.183	4.40	4.65	
е	0.046	0.054	1.17	1.37	
e1	0.092	0.104	2.34	2.64	
L	0.531	0.571	13.50	14.50	
L1	0.071	0.087	1.80	2.20	

8. Part Marking System



9. Package Information

Package	Box	Carton
TO92	2000pcs	20,000pcs

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