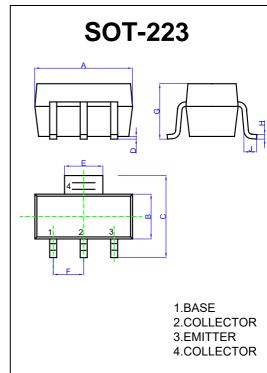




Micro Commercial Components 130 W Cochran St, Unit B Simi Valley, CA 93065 Tel:818-701-4933 BCP54-10/16HE3 BCP55-10/16HE3 BCP56-10/16HE3

NPN Plastic-Encapsulate Transistors



	INC	CHES	N	1M	
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.248	.264	6.30	6.70	
В	.130	.146	3.30	3.70	
С	.264	.287	6.70	7.30	
D	.001	.004	0.02	0.10	
Е	.114	.122	2.90	3.10	
F	.091		2.30		
G		.071	ı	1.80	
Н	.009	.014	0.23	0.35	
J	.030		0.75		

Features

- For AF driver and output stages
- High collector current
- Low collector-emitter saturation voltage
- Complementary types: BCP51 ... BCP53 (PNP)
- Lead Free Finish/Rohs Compliant ("P"Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- AEC-Q101 Qualified
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings @ 25°C Unless Otherwise Specified

Charateristic	Symbol	Value	Unit
Collector-Base Voltage BCP54-10/16HE3 BCP55-10/16HE3 BCP56-10/16HE3	V _{CBO}	45 60 100	V
Collector-Emitter Voltage BCP54-10/16HE3 BCP55-10/16HE3 BCP56-10/16HE3	V _{CEO}	45 60 80	V
Emitter-Base Voltage	V_{EBO}	5.0	V
Collector Current-Continuous	I _C	1.0	Α
Thermal Resistance Junction to Ambient	RthJA	83.3	°C/W
Collector Power Dissipation	Pc	1.5	W
Operating & Storage Temperature	T_j , T_{STG}	-55~150	°C



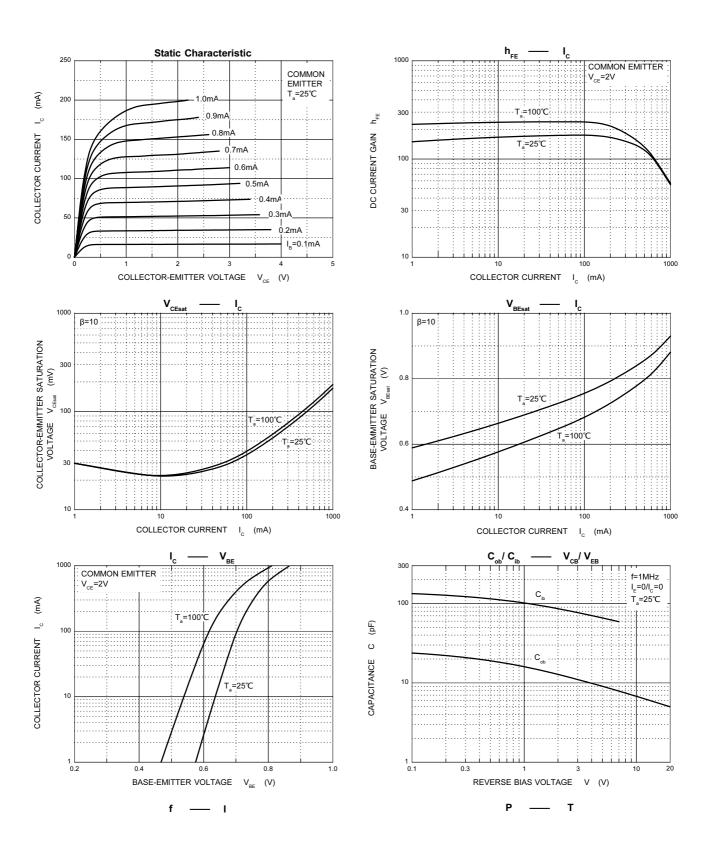
ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Max	Unit
Collector-base breakdown voltage			45		
BCP54-10/16HE3 BCP55-10/16HE3	V _{(BR)CBO}	I _C = 0.1mA,I _E =0	60		V
BCP56-10/16HE3			100		
Collector-emitter breakdown voltage			45		
BCP54-10/16HE3 BCP55-10/16HE3	V _{(BR)CEO}	I _C = 10mA,I _B =0	60		V
BCP55-10/16HE3 BCP56-10/16HE3			80		
Base-emitter breakdown voltage	V _{(BR)EBO}	I _C = 10μΑ,I _E =0	5		V
Collector cut-off current	I _{CBO}	V _{CB} = 30 V, I _E =0		100	nA
	h _{FE(1)}	V _{CE} = 2V, I _C =5mA	25		
DC current gain	h _{FE(2)}	V _{CE} = 2V, I _C =150m A	63	250	
	h _{FE(3)}	V _{CE} = 2V, I _C =500m A	25		
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =500mA,I _B =50mA		0.5	V
Base-emitter voltage	V_{BE}	V _{CE} =2V, I _C =500m A		1	V
Transition frequency	f⊤	V _{CE} =10V,I _C =50mA,f=100MHz	100		MHz

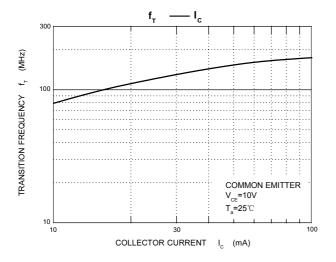
CLASSIFICATION OF h_{FE(2)}

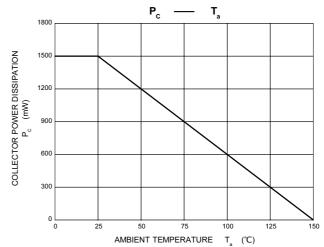
Rank	BCP54-10HE3, BCP55-10HE3, BCP56-10HE3	BCP54-16HE3, BCP55-16H3, BCP56-16HE3
Range	63-160	100-250
Marking	BCP54-10, BCP55-10, BCP56-10	BCP54-16, BCP55-16, BCP56-16













Ordering Information:

Device	Packing
Part Number-TP	Tape&Reel 2.5 Kpcs/Reel

Note: Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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