

Features

- Complementary Types: BCP56 (NPN)
- Halogen Free. "Green" Device (Note 1)
- · Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

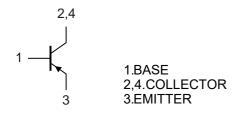
Maximum Ratings @ 25°C Unless Otherwise Specified

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 83.3°C/W Junction to Ambient

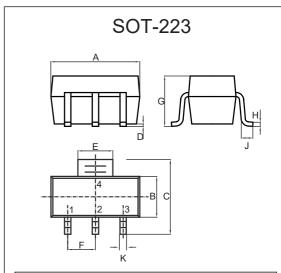
Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	-100	V
Collector-Emitter Voltage	V _{CEO}	-80	V
Emitter-Base Voltage	V _{EBO}	-5	V
Collector Current	I _C	-1	Α
Power Dissipation	P _D	1.5	W

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure

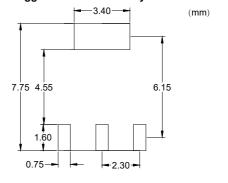


PNP Plastic-Encapsulate Transistors



DIMENSIONS						
DIM INCHES		M	M	NOTE		
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.248	0.264	6.30	6.70		
В	0.130	0.146	3.30	3.70		
С	0.264	0.287	6.70	7.30		
D	0.001	0.004	0.02	0.10		
Е	0.114	0.122	2.90	3.10		
F	0.0	0.091		30	TYP.	
G		0.071		1.80		
Ι	0.009	0.014	0.23	0.35		
٦	0.030		0.75			
K	0.026	0.033	0.66	0.84		

Suggested Solder Pad Layout





Electrical Characteristics @ T_A =25°C Unless Otherwise Specified

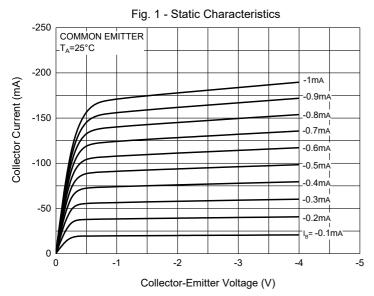
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	-100			V	I _C =-100μA, I _E =0
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	-80			V	I _C =-10mA, I _B =0
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-5			V	I _E =-10μA, I _C =0
Collector-Base Cutoff Current	I _{CBO}			-100	nA	V_{CB} =-30V, I_{E} =0
	h _{FE1}	25				V_{CE} =-2V, I_{C} =-5mA
DC Current Gain	h _{FE2}	63		250		V _{CE} =-2V, I _C =-150mA
	h _{FE3}	25				V_{CE} =-2V, I_{C} =-500mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}			-0.5	V	I _C =-500mA, I _B =-50mA
Base-Emitter Voltage	V_{BE}			-1	V	V_{CE} =-2V, I_{C} =-500mA
Transition Frequency	f _T	100			MHz	V _{CE} =-10V, I _C =-50mA, f=100MHz

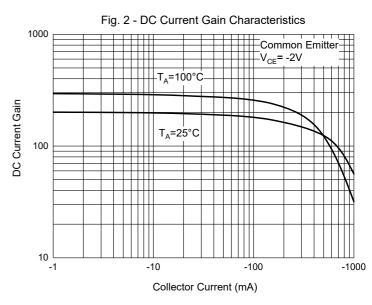
Classification of $h_{\text{FE}(2)}$

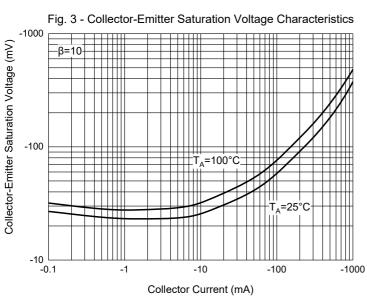
Rank	BCP53-10	BCP53-16		
Range	63~160	100~250		

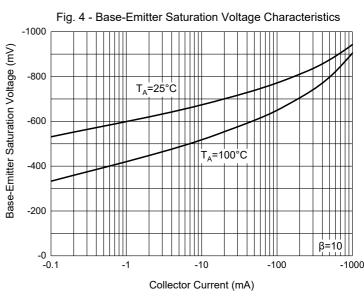


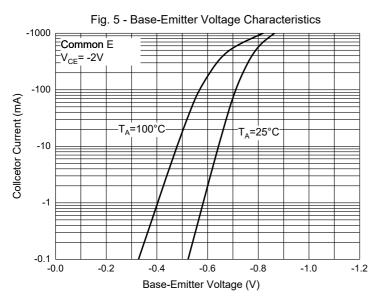
Curve Characteristics

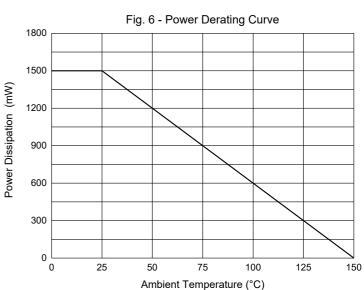














Ordering Information

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

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