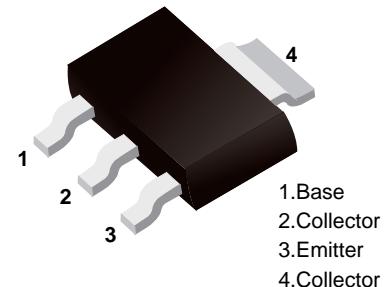


BCP51/BCP52/BCP53

■ PNP Transistors



■ Features

- For AF driver and output stages
- High collector current
- Low collector-emitter saturation voltage
- Complementary to BCP54, BCP55, BCP56

■ Simplified outline(SOT-223)

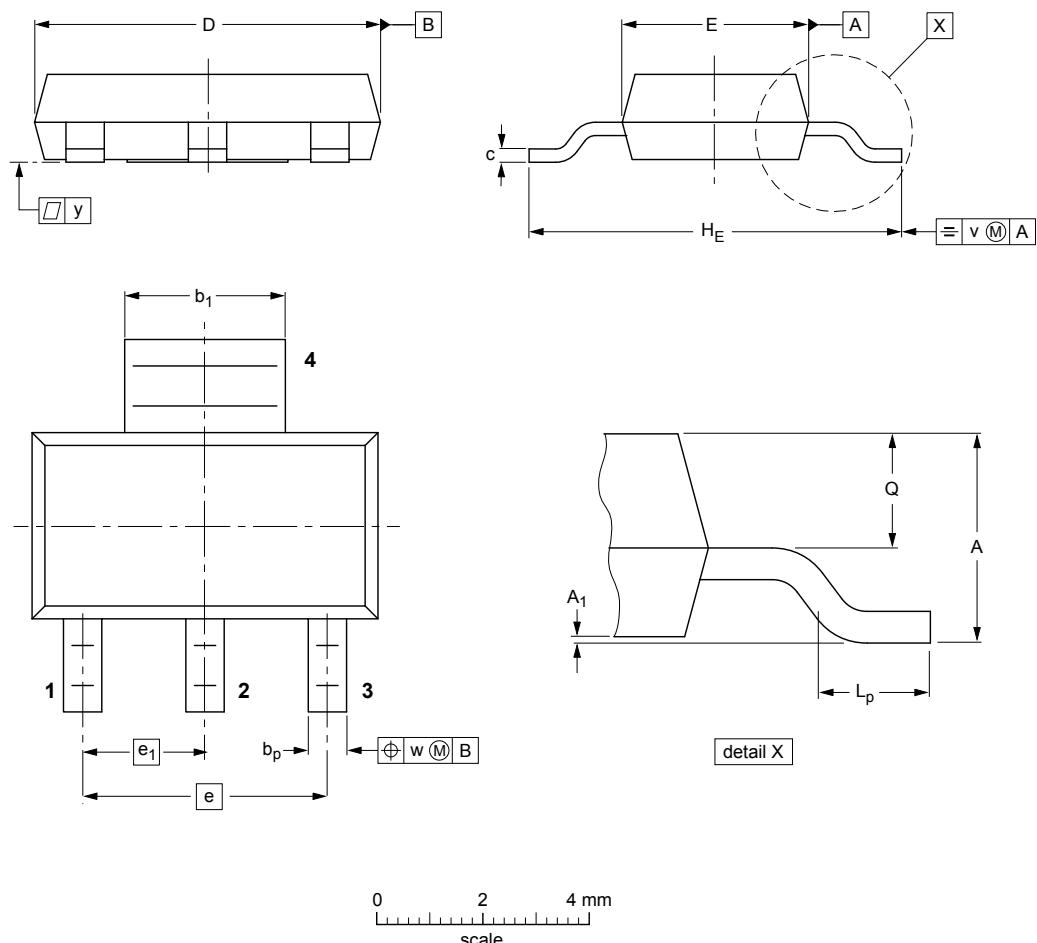
■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	BCP51	BCP52	BCP53	Unit
Collector - Base Voltage	V _{CBO}	-45	-60	-100	V
Collector - Emitter Voltage	V _{CEO}	-45	-60	-80	
Emitter - Base Voltage	V _{EBO}		-5		
Collector Current - Continuous	I _c		-1		A
Collector Power Dissipation	P _c		1.5		W
Thermal Resistance Junction to Ambient	R _{θJA}		94		°C/W
Junction Temperature	T _J		150		°C
Storage Temperature Range	T _{stg}		-65 to 150		

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V _{CBO}	I _c = -100 µA, I _E = 0	-45			V
			-60			
			-100			
Collector- emitter breakdown voltage	V _{CEO}	I _c = -10 mA, I _B = 0	-45			V
			-60			
			-80			
Emitter - base breakdown voltage	V _{EBO}	I _E = -100 µ A, I _c = 0	-5			
Collector-base cut-off current	I _{CBO}	V _{CB} = -45 V , I _E = 0				uA
		V _{CB} = -60 V , I _E = 0				
		V _{CB} = -100 V , I _E = 0				
Emitter cut-off current	I _{EBO}	V _{EB} = -5V , I _c =0				-0.1
Collector-emitter saturation voltage	V _{CE(sat)}	I _c =-500 mA, I _B =-50mA				-0.5
Base - emitter saturation voltage	V _{BE(sat)}	I _c =-500 mA, I _B =-50mA				-1.2
Base-emitter voltage	V _{BE}	V _{CE} = -2V, I _c = -500mA				-1
DC current gain	h _{FE(1)}	V _{CE} = -2V, I _c = -5mA	25			V
	h _{FE(2)}	V _{CE} = -2V, I _c = -150mA	63		250	
	h _{FE(3)}	V _{CE} = -2V, I _c = -500mA	25			
Transition frequency	f _T	V _{CE} = -10V, I _c = -50mA,f=100MHz	100			MHz

■ SOT-223



DIMENSIONS (mm are the original dimensions)

UNIT	A	A_1	b_p	b_1	c	D	E	e	e_1	H_E	L_p	Q	v	w	y
mm	1.8 1.5	0.10 0.01	0.80 0.60	3.1 2.9	0.32 0.22	6.7 6.3	3.7 3.3	4.6	2.3	7.3 6.7	1.1 0.7	0.95 0.85	0.2	0.1	0.1