

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

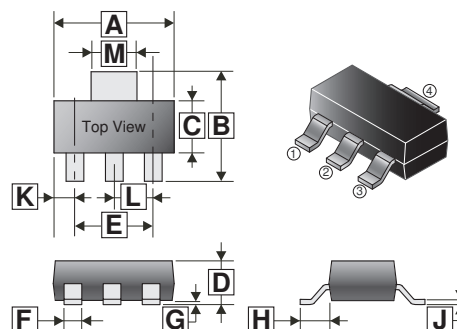
FEATURES

- For AF Driver and Output Stages
- High Collector Current
- Low Collector-Emitter Saturation Voltage

SOT-223

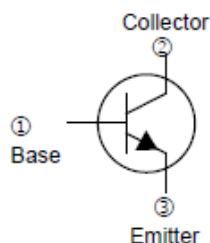
PACKAGE INFORMATION

Package	MPQ	Leader Size
SOT-223	2.5K	13 inch



ORDER INFORMATION

Part Number	Type
BCP55-16-C	Lead (Pb)-free and Halogen-free



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	5.90	6.70	G	-	0.18
B	6.70	7.30	H	-	2.00 REF.
C	3.30	3.80	J	0.20	0.40
D	1.40	1.90	K	-	1.10 REF.
E	4.45	4.75	L	-	2.30 REF.
F	0.60	0.85	M	2.80	3.20

ABSOLUTE MAXIMUM RATINGS (T_A=25°C unless otherwise specified)

Parameter	Symbol	Ratings	Unit
Collector-Base Voltage	V _{CBO}	60	V
Collector-Emitter Voltage	V _{CEO}	60	V
Emitter-Base Voltage	V _{EBO}	5	V
Collector Current-Continuous	I _C	1	A
Collector Power Dissipation	P _D	1.5	W
Typical Thermal Resistance	R _{θJA}	83.3	°C/W
Storage Temperature	T _{STG}	-65~150	°C

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

Parameter	Symbol	Min.	Max.	Unit	Test Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	60	-	V	I _C =0.1mA, I _E =0
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	60	-	V	I _C =10mA, I _B =0
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	5	-	V	I _E =10μA, I _C =0
Collector Cut-Off Current	I _{CBO}	-	100	nA	V _{CB} =30V, I _E =0
DC Current Gain	h _{FE}	25	-		V _{CE} =2V, I _C =5mA
		100	250		V _{CE} =2V, I _C =150mA
		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(on)}	-	1	V	V _{CE} =2V, I _C =500mA
Transition Frequency	f _T	100	-	MHz	V _{CE} =10V, I _C =50mA, f=100MHz

CHARACTERISTIC CURVES

