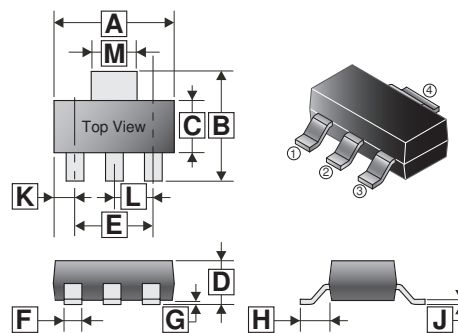


RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

**FEATURES**

- For AF Driver and Output Stages
- High Collector Current
- Low Collector-Emitter Saturation Voltage
- Complementary Types:BCP53 (PNP)

**SOT-223**

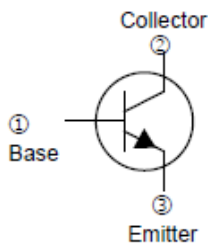


**PACKAGE INFORMATION**

Package	MPQ	Leader Size
SOT-223	2.5K	13 inch

**ORDER INFORMATION**

Part Number	Type
BCP56-16-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<sub>A</sub>=25°C unless otherwise specified)

Parameter	Symbol	Ratings	Unit
Collector-Base Voltage	V <sub>CB0</sub>	100	V
Collector-Emitter Voltage	V <sub>CEO</sub>	80	V
Emitter-Base Voltage	V <sub>EBO</sub>	5	V
Collector Current-Continuous	I <sub>C</sub>	1	A
Collector Power Dissipation	P <sub>C</sub>	1.5	W
Thermal Resistance from Junction to Ambient	R <sub>θJA</sub>	83.3	°C/W
Storage Temperature	T <sub>STG</sub>	-65~150	°C

**ELECTRICAL CHARACTERISTICS** (T<sub>A</sub>=25°C unless otherwise specified)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Collector-Base Breakdown Voltage	V <sub>(BR)CBO</sub>	100	-	-	V	I <sub>C</sub> =100μA, I <sub>E</sub> =0
Collector-Emitter Breakdown Voltage	V <sub>(BR)CEO</sub>	80	-	-	V	I <sub>C</sub> =10mA, I <sub>B</sub> =0
Emitter-Base Breakdown Voltage	V <sub>(BR)EBO</sub>	5	-	-	V	I <sub>E</sub> =10μA, I <sub>E</sub> =0
Collector Cut-Off Current	I <sub>CBO</sub>	-	-	100	nA	V <sub>CB</sub> =30V, I <sub>E</sub> =0
DC Current Gain	h <sub>FE1</sub>	25	-	-		V <sub>CE</sub> =2V, I <sub>C</sub> =5mA
	h <sub>FE2</sub>	100	-	250		V <sub>CE</sub> =2V, I <sub>C</sub> =150mA
	h <sub>FE3</sub>	25	-	-		V <sub>CE</sub> =2V, I <sub>C</sub> =500mA
Collector-Emitter Saturation Voltage	V <sub>CE(sat)</sub>	-	-	0.5	V	I <sub>C</sub> =500mA, I <sub>B</sub> =50mA
Base-Emitter Voltage	V <sub>BE(on)</sub>	-	-	1	V	V <sub>CE</sub> =2V, I <sub>C</sub> =500mA
Transition Frequency	f <sub>T</sub>	100	-	-	MHz	V <sub>CE</sub> =10V, I <sub>C</sub> =50mA, f=100MHz

**CHARACTERISTIC CURVES**

