

RoHS Compliant Product

### SOT-89

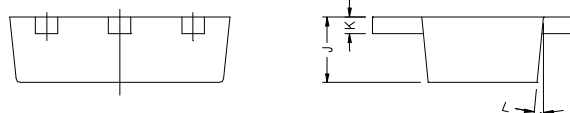
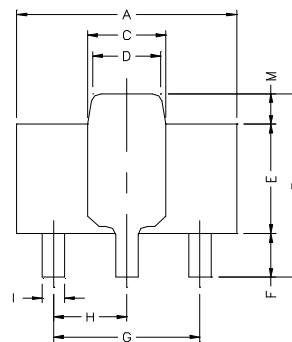
### Description

[www.DataSheet4U.net](http://www.DataSheet4U.net)

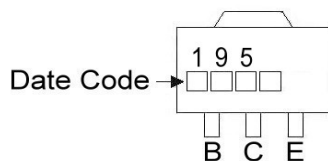
The BCP195 is designed for medium power amplifier applications.

### Features

- \* 1Amp Continuous Current
- \* -60V V<sub>CEO</sub>
- \* Complementary TO BCP194



### Marking :



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	4.4	4.6	G	3.00	REF.
B	4.05	4.25	H	1.50	REF.
C	1.50	1.70	I	0.40	0.52
D	1.30	1.50	J	1.40	1.60
E	2.40	2.60	K	0.35	0.41
F	0.89	1.20	L	5° TYP.	
			M	0.70 REF.	

### Absolute Maximum Ratings at Ta=25 °C

Parameter	Symbol	Value	Unit
Collector-Base Voltage	V <sub>CBO</sub>	-80	V
Collector-Emitter Voltage	V <sub>CEO</sub>	-60	V
Emitter-Base Voltage	V <sub>EBO</sub>	-5	V
Collector Current (DC)	I <sub>C</sub>	-1	A
Collector Current (Pulse)	I <sub>C</sub>	-2	A
Base Current	I <sub>B</sub>	-200	mA
Total Power Dissipation	P <sub>D</sub>	1	W
Operating Junction and Storage Temperature	T <sub>J</sub> , T <sub>STG</sub>	+150, -55 ~ +150	°C

### Electrical Characteristics (Ta=25 °C, unless otherwise stated)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Collector-Base Breakdown Voltage	BV <sub>CBO</sub>	-80	-	-	V	I <sub>C</sub> =-100μA, I <sub>E</sub> =0
Collector-Emitter Breakdown Voltage	BV <sub>CEO</sub>	-60	-	-	V	I <sub>C</sub> =-10mA, I <sub>B</sub> =0
Emitter-Base Breakdown Voltage	BV <sub>EBO</sub>	-5	-	-	V	I <sub>E</sub> =-100μA, I <sub>C</sub> =0
Collector Cut-off Current	I <sub>CBO</sub>	-	-	-100	nA	V <sub>CB</sub> =-60V, I <sub>E</sub> =0
Emitter Cut-off Current	I <sub>EBO</sub>	-	-	-100	nA	V <sub>EB</sub> =-4V, I <sub>C</sub> =0
Saturation Cut-off Current	I <sub>CES</sub>	-	-	-100	nA	V <sub>CE</sub> =-60V
Collector-Emitter Saturation Voltage	V <sub>CE(sat)1</sub>	-	-	-0.3	V	I <sub>C</sub> =-500mA, I <sub>B</sub> =-50mA
	V <sub>CE(sat)2</sub>	-	-	-0.6	V	I <sub>C</sub> =-1A, I <sub>B</sub> =-100mA
Output Capacitance	C <sub>ob</sub>	-	-	10	pF	V <sub>CB</sub> =-10V, f=1MHz, I <sub>E</sub> =0
Base-Emitter Voltage	V <sub>BE(sat)</sub>	-	-	-1.2	V	I <sub>C</sub> =-1A, I <sub>B</sub> =-100mA
	V <sub>BE(on)</sub>	-	-	-1	V	V <sub>CE</sub> =-5V, I <sub>B</sub> =-1A
DC Current Gain	h <sub>FE1</sub>	100	-	-		V <sub>CE</sub> =-5V, I <sub>C</sub> =-1mA
	h <sub>FE2</sub>	100	-	300		V <sub>CE</sub> =-5V, I <sub>C</sub> =-500mA
	h <sub>FE3</sub>	80	-	-		V <sub>CE</sub> =-5V, I <sub>C</sub> =-1A
	h <sub>FE4</sub>	15	-	-		V <sub>CE</sub> =-5V, I <sub>C</sub> =-2A
Transition Frequency	f <sub>T</sub>	150	-	-	MHZ	V <sub>CE</sub> =-10V, I <sub>C</sub> =-50mA, f=100MHZ

**Characteristics Curve**

