

RoHS Compliant Product

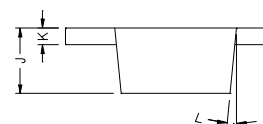
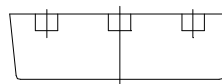
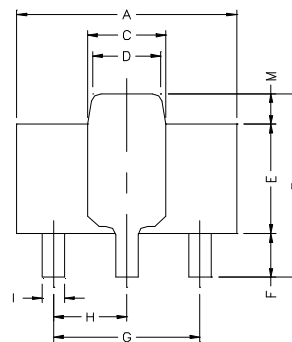
SOT-89

Description

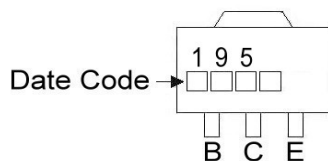
The BCP195 is designed for medium power amplifier applications.

Features

- * 1Amp Continuous Current
- * -60V V_{CEO}
- * 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 _{CBO}	-80	V
Collector-Emitter Voltage	V _{CEO}	-60	V
Emitter-Base Voltage	V _{EBO}	-5	V
Collector Current (DC)	I _C	-1	A
Collector Current (Pulse)	I _C	-2	A
Base Current	I _B	-200	mA
Total Power Dissipation	P _D	1	W
Operating Junction and Storage Temperature	T _J , T _{STG}	+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 _{CBO}	-80	-	-	V	I _C =-100μA, I _E =0
Collector-Emitter Breakdown Voltage	BV _{CEO}	-60	-	-	V	I _C =-10mA, I _B =0
Emitter-Base Breakdown Voltage	BV _{EBO}	-5	-	-	V	I _E =-100μA, I _C =0
Collector Cut-off Current	I _{CBO}	-	-	-100	nA	V _{CB} =-60V, I _E =0
Emitter Cut-off Current	I _{EBO}	-	-	-100	nA	V _{EB} =-4V, I _C =0
Saturation Cut-off Current	I _{CES}	-	-	-100	nA	V _{CE} =-60V
Collector-Emitter Saturation Voltage	V _{CE(sat)1}	-	-	-0.3	V	I _C =-500mA, I _B =-50mA
	V _{CE(sat)2}	-	-	-0.6	V	I _C =-1A, I _B =-100mA
Output Capacitance	C _{ob}	-	-	10	pF	V _{CB} =-10V, f=1MHz, I _E =0
Base-Emitter Voltage	V _{BE(sat)}	-	-	-1.2	V	I _C =-1A, I _B =-100mA
	V _{BE(on)}	-	-	-1	V	V _{CE} =-5V, I _B =-1A
DC Current Gain	h _{FE1}	100	-	-		V _{CE} =-5V, I _C =-1mA
	h _{FE2}	100	-	300		V _{CE} =-5V, I _C =-500mA
	h _{FE3}	80	-	-		V _{CE} =-5V, I _C =-1A
	h _{FE4}	15	-	-		V _{CE} =-5V, I _C =-2A
Transition Frequency	f _T	150	-	-	MHZ	V _{CE} =-10V, I _C =-50mA, f=100MHZ

Characteristics Curve

