

RoHS Compliant Product

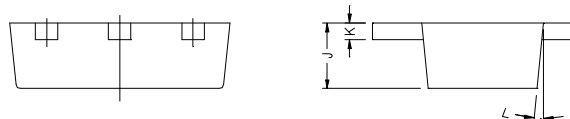
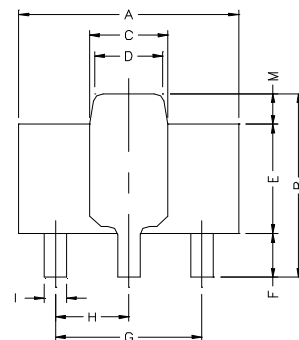
SOT-89

Description

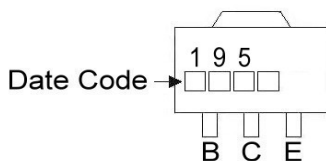
The BCP195 is designed for medium power amplifier applications.

Features

- * 1Amp Continuous Current
- * -60V VCEO
- * 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	$I_C = -100\mu A, I_E = 0$
Collector-Emitter Breakdown Voltage	BV_{CEO}	-60	-	-	V	$I_C = -10mA, I_B = 0$
Emitter-Base Breakdown Voltage	BV_{EBO}	-5	-	-	V	$I_E = -100\mu A, I_C = 0$
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	$V_{CES} = -60V$
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

