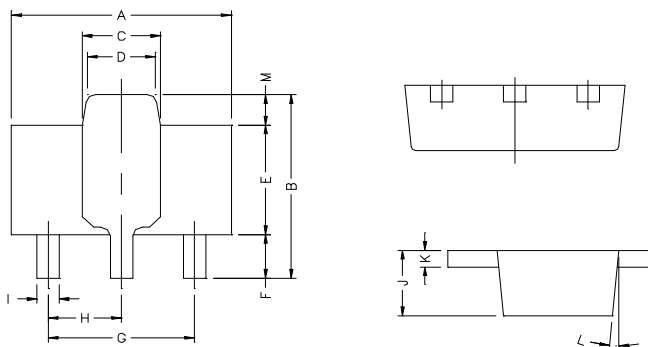


RoHS Compliant Product

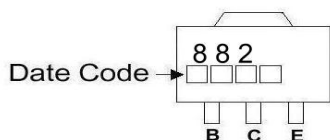
SOT-89

Description

The BCP882 is suited for the output stage of 1.5W audio, voltage regulator, and relay driver.



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 $T_A=25^\circ\text{C}$

Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage	40	V
V_{CEO}	Collector-Emitter Voltage	30	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current	3	A
P_D	Total Power Dissipation	1.2	W
T_J, T_{stg}	Junction and Storage Temperature	-55~+150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS $T_{amb}=25^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Min	Typ.	Max	Unit	Test Conditions
Collector-Base Breakdown Voltage	BV_{CBO}	40	-	-	V	$I_C=100\mu\text{A}, I_E=0$
Collector-Emitter Breakdown Voltage	BV_{CEO}	30	-	-	V	$I_C=1\text{mA}, I_B=0$
Emitter-Base Breakdown Voltage	BV_{EBO}	5	-	-	V	$I_E=10\mu\text{A}$
Collector-Base Cutoff Current	I_{CBO}	-	-	1	μA	$V_{CB}=30\text{V}$
Emitter-Base Cutoff Current	I_{EBO}	-	-	1	μA	$V_{EB}=3\text{V}$
Collector Saturation Voltage	$V_{CE(sat)}$	-	-	0.5	V	$I_C=2\text{A}, I_B=0.2\text{A}$
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	-	-	2	V	$I_C=2\text{A}, I_B=0.2\text{A}$
DC Current Gain	h_{FE1}	30	-	-		$V_{CE}=2\text{V}, I_C=20\text{mA}$
	h_{FE2}	100	-	500		$V_{CE}=2\text{V}, I_C=1\text{A}$
Gain-Bandwidth Product	f_T	-	90	-	MHz	$V_{CE}=5\text{V}, I_C=0.1\text{A}, f=100\text{MHz}$
Output Capacitance	C_{ob}	-	45	-	pF	$V_{CB}=10\text{V}, f=1\text{MHz}, I_E=0$

Classification of h_{FE}

Rank	Q	P	E
Range	100~200	160~320	250~500

Characteristics Curve

