

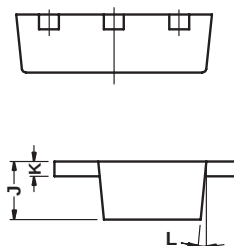
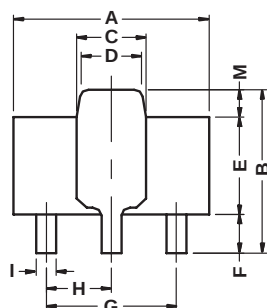
RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

The BCP869 is designed for application required for high current (maximum -1 A) and low voltage (maximum -20 V).

PACKAGE DIMENSIONS

SOT-89



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	4.40	4.60	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	Ratings	Unit
Collector-Base Voltage	V_{CBO}	-32	V
Collector-Emitter Voltage	V_{CEO}	-20	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current -Continuous	I_C	-1	A
Collector Dissipation	P_C	0.5	W
Junction & Storage temperature	T_J, T_{STG}	150, -55~150	°C

PNP ELECTRICAL CHARACTERISTICS at Ta = 25°C

Parameter	Symbol	Min.	Max.	Unit	Test Conditions
Collector-base breakdown voltage	$V_{(BR)CBO}$	-32	-	V	$I_C = -0.1mA, I_E = 0$
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	-20	-	V	$I_C = -1mA, I_B = 0$
Emitter-base breakdown voltage	$V_{(BR)EBO}$	-5	-	V	$I_E = -0.1mA, I_C = 0$
Collector cut-off current	I_{CBO}	-	-0.1	μA	$V_{CB} = -25V, I_E = 0$
Emitter cut-off current	I_{EBO}	-	-0.1	μA	$V_{EB} = -5V, I_C = 0$
DC current gain	$h_{FE(1)}$	50	-	-	$V_{CE} = -10V, I_C = -5mA$
	$h_{FE(2)}$	100	375	-	$V_{CE} = -1V, I_C = -500mA$
	$h_{FE(3)}$	60	-	-	$V_{CE} = -1V, I_C = -1A$
Base-emitter voltage	V_{BE}	-	-1	V	$V_{CE} = -1V, I_C = -1A$
Collector-emitter saturation voltage	$V_{CE(sat)}$	-	-0.5	V	$I_C = -1A, I_B = -100mA$
Transition frequency	f_T	40	-	MHz	$V_{CE} = -5V, I_C = -10mA, f = 100MHz$

CLASSIFICATION OF hFE2

Rank	BC869	BC869-16	BC869-25
Range	100 – 375	100 - 250	160 – 375
Marking	CEC	CGC	CHC

CHARACTERISTIC CURVES

