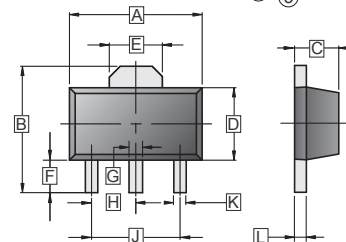
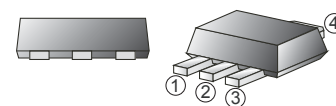


RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

The BCP772 is designed for using in output stage of amplifier, voltage regulator, DC-DC converter and relay driver.

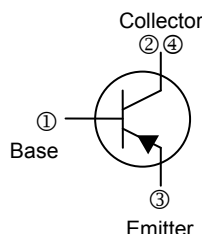
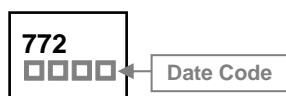
SOT-89



CLASSIFICATION OF $h_{FE(2)}$

Product-Rank	BCP772-Q	BCP772-P	BCP772-E
Range	100~200	160~360	250~500

MARKING



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	4.40	4.60	G	0.40	0.58
B	3.94	4.25	H	1.50	TYP
C	1.40	1.60	J	3.00	TYP
D	2.25	2.60	K	0.32	0.52
E	1.50	1.85	L	0.35	0.44
F	0.89	1.20			

PACKAGE INFORMATION

Package	MPQ	Leader Size
SOT-89	1K	7 inch

ABSOLUTE MAXIMUM RATINGS ($T_A = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Ratings	Unit
Collector-Base Voltage	V_{CB0}	-40	V
Collector-Emitter Voltage	V_{CEO}	-30	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current -Continuous	I_C	-3	A
Collector Power Dissipation	P_D	1.2	W
Junction & Storage Temperature	T_J, T_{STG}	-55~150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Collector-base breakdown voltage	$V_{(BR)CBO}$	-40	-	-	V	$I_C = -100\mu\text{A}$
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	-30	-	-	V	$I_C = -1\text{mA}$
Emitter-base breakdown voltage	$V_{(BR)EBO}$	-5	-	-	V	$I_E = -10\mu\text{A}$
Collector cut-off current	I_{CBO}	-	-	-1	μA	$V_{CB} = -30\text{V}$
Emitter cut-off current	I_{EBO}	-	-	-1	μA	$V_{BE} = -3\text{V}$
DC current gain	$h_{FE(1)}$	30	-	-		$V_{CE} = -2\text{V}, I_C = -20\text{mA}$
	$h_{FE(2)}$	100	160	500		$V_{CE} = -2\text{V}, I_C = -1\text{A}$
	$h_{FE(3)}$	100	-	-		$V_{CE} = -2\text{V}, I_C = -1\text{mA}$
Collector-emitter saturation voltage	$V_{CE(sat)}$	-	-0.3	-0.5	V	$I_C = -2\text{A}, I_B = -0.2\text{A}$
Base-emitter saturation voltage	$V_{BE(sat)}$	-	-1	-2	V	$I_C = -2\text{A}, I_B = -0.2\text{A}$
Transition frequency	f_T	-	80	-	MHz	$V_{CE} = -5\text{V}, I_C = -20\text{mA}, f = 100\text{MHz}$
Output Capacitance	C_{OB}	-	55	-	pF	$V_{CB} = -10\text{V}, f = 1\text{MHz}$

CHARACTERISTIC CURVES

