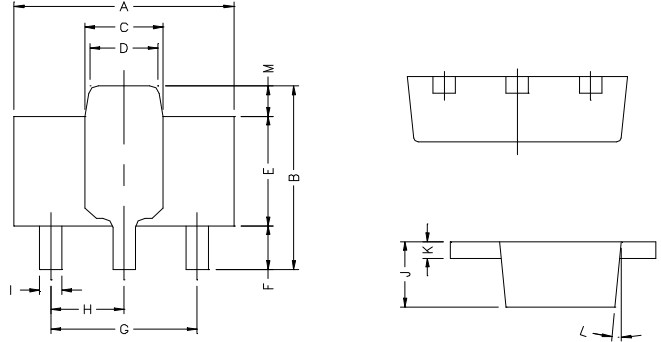


RoHS Compliant Product

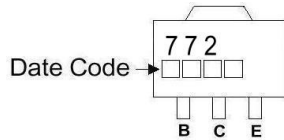
SOT-89

**Description**

The BCP772 is designed for using in output stage of amplifier, voltage regulator, DC-DC converter 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<sub>A</sub>=25°C (unless otherwise specified)**

Parameter	Symbol	Ratings	Unit
Collector to Base Voltage	V <sub>CBO</sub>	-40	V
Collector to Emitter Voltage	V <sub>CEO</sub>	-30	V
Emitter to Base Voltage	V <sub>EBO</sub>	-5	V
Collect Current	I <sub>C</sub>	-3	A
Total Power Dissipation (T <sub>C</sub> =25°C)	P <sub>D</sub>	1.2	W
Operating Junction and Storage Temperature Range	T <sub>j</sub> , T <sub>stg</sub>	-55~+150	°C

**ELECTRICAL CHARACTERISTICS T<sub>amb</sub>=25°C unless otherwise specified**

Parameter	Symbol	Min	Typ.	Max	Unit	Test Conditions
Collector-Base Breakdown Voltage	BV <sub>CBO</sub>	-40	-	-	V	I <sub>C</sub> =-100μA
Collector-Emitter Breakdown Voltage	BV <sub>CEO</sub>	-30	-	-	V	I <sub>C</sub> =-1 mA
Emitter-Base Breakdown Voltage	BV <sub>EBO</sub>	-5	-	-	V	I <sub>E</sub> =-10μA
Collector-Base Cutoff Current	I <sub>CBO</sub>	-	-	-1	uA	V <sub>CB</sub> =-30V
Emitter-Base Cutoff Current	I <sub>EBO</sub>	-	-	-1	uA	V <sub>BE</sub> =-3V
Collector Saturation Voltage	V <sub>CE(sat)</sub>	-	-0.3	-0.5	V	I <sub>C</sub> =- 2 A, I <sub>B</sub> =-0.2A
Base Saturation Voltage	V <sub>BE(sat)</sub>	-	-1	-2	V	I <sub>C</sub> =- 2A, I <sub>B</sub> =- 0.2A
DC Current Gain	h <sub>FE1</sub>	30	-	-		V <sub>CE</sub> =-2V, I <sub>C</sub> =-20mA
	h <sub>FE2</sub>	100	160	500		V <sub>CE</sub> =-2V, I <sub>C</sub> =- 1 A
Gain-Bandwidth Product	f <sub>T</sub>	-	80	-	MHz	V <sub>CE</sub> =-5V, I <sub>C</sub> =- 20mA, f=100MHz
Output Capacitance	C <sub>ob</sub>	-	55	-	pF	V <sub>CB</sub> =-10V, f=1MHz

**Classification of hFE2**

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

**Characteristics Curve**

