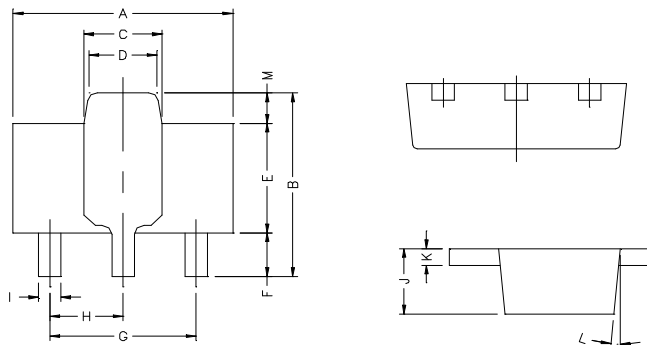


RoHS Compliant Product

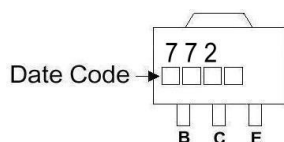
SOT-89

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_A=25°C (unless otherwise specified)

Parameter	Symbol	Ratings	Unit
Collector to Base Voltage	V _{CB0}	-40	V
Collector to Emitter Voltage	V _{CEO}	-30	V
Emitter to Base Voltage	V _{EBO}	-5	V
Collect Current	I _C	-3	A
Total Power Dissipation (T _C =25°C)	P _D	1.2	W
Operating Junction and Storage Temperature Range	T _j , T _{stg}	-55~+150	°C

ELECTRICAL CHARACTERISTICS T_{amb}=25°C unless otherwise specified

Parameter	Symbol	Min	Typ.	Max	Unit	Test Conditions
Collector-Base Breakdown Voltage	BV _{CB0}	-40	-	-	V	I _C =-100μA
Collector-Emitter Breakdown Voltage	BV _{CEO}	-30	-	-	V	I _C =-1 mA
Emitter-Base Breakdown Voltage	BV _{EBO}	-5	-	-	V	I _E =-10μA
Collector-Base Cutoff Current	I _{CB0}	-	-	-1	uA	V _{CB} =-30V
Emitter-Base Cutoff Current	I _{EBO}	-	-	-1	uA	V _{BE} =-3 V
Collector Saturation Voltage	V _{CE(sat)}	-	-0.3	-0.5	V	I _C =- 2 A, I _B =-0.2A
Base Saturation Voltage	V _{BE(sat)}	-	-1	-2	V	I _C =- 2A, I _B =- 0.2A
DC Current Gain	h _{FE1}	30	-	-		V _{CE} =-2 V, I _C =-20mA
	h _{FE2}	100	160	500		V _{CE} =-2 V, I _C =- 1 A
Gain-Bandwidth Product	f _T	-	80	-	MHz	V _{CE} =-5V, I _C =- 20mA, f=100MHz
Output Capacitance	C _{ob}	-	55	-	pF	V _{CB} =-10 V, f=1MHz

Classification of h_{FE2}

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

Characteristics Curve

