

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

FEATURES

- BCP772 has Low Speed Switching

MARKING

B772

CLASSIFICATION OF h_{FE}

Product-Rank	BCP772-O	BCP772-P	BCP772-GR
Range	100~200	160~320	200~400

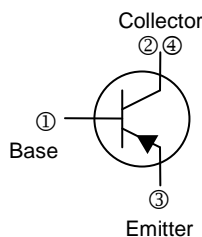
PACKAGE INFORMATION

Package	MPQ	Leader Size
SOT-89	1K	7 inch

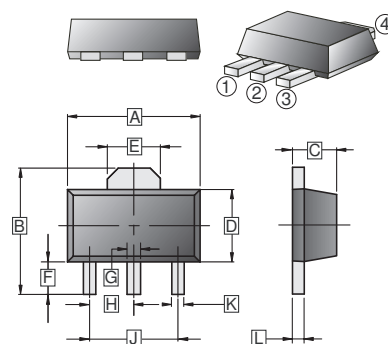
ORDER INFORMATION

Part Number	Type
BCP772-□	Lead (Pb)-free
BCP772-□-C	Lead (Pb)-free and Halogen-free

*□=Rank



SOT-89



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	1.55 TYP.		L	0.35	0.44
F	0.89	1.20			

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

Parameter	Symbol	Ratings	Unit
Collector-Base Voltage	V_{CBO}	-40	V
Collector-Emitter Voltage	V_{CEO}	-30	V
Emitter-Base Voltage	V_{EBO}	-6	V
Collector Current-Continuous	I_C	-3	A
Collector Power Dissipation	P_C	0.5	W
Thermal Resistance from Junction-Ambient	$R_{\theta JA}$	250	$^\circ\text{C}/\text{W}$
Junction and Storage Temperature	T_J, T_{STG}	150, -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	$I_C = -100\mu\text{A}, I_E = 0$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	-30	-	-	V	$I_C = -10\text{mA}, I_B = 0$
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-6	-	-	V	$I_E = -100\mu\text{A}, I_C = 0$
Collector Cut-off Current	I_{CBO}	-	-	-1	μA	$V_{CB} = -40\text{V}, I_E = 0$
Collector Cut-off Current	I_{CEO}	-	-	-10	μA	$V_{CE} = -30\text{V}, I_B = 0$
Emitter Cut-off Current	I_{EBO}	-	-	-1	μA	$V_{EB} = -6\text{V}, I_C = 0$
DC Current Gain	h_{FE}	100	-	400		$V_{CE} = -2\text{V}, I_C = -1\text{A}$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	-	-	-0.5	V	$I_C = -2\text{A}, I_B = -0.2\text{A}$
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	-	-	-1.5	V	$I_C = -2\text{A}, I_B = -0.2\text{A}$
Transition Frequency	f_T	50	-	-	MHz	$V_{CE} = -5\text{V}, I_C = -0.1\text{A}, f = 10\text{MHz}$

CHARACTERISTIC CURVES

Static Characteristic

