

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

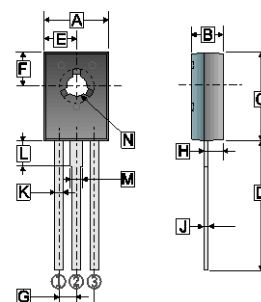
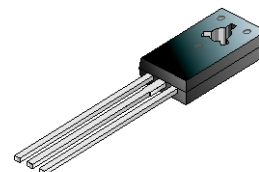
FEATURES

- Low Frequency Power Amplifier
- High Current
- Low Speed Switching

MARKING



TO-18



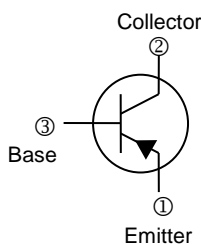
CLASSIFICATION OF h_{FE}

Product-Rank	B772-R	B772-O
Range	60~120	100~200
Product-Rank	B772-Y	B772-GR
Range	160~320	200~400

ORDER INFORMATION

Part Number	Type
B772-□	Lead (Pb)-free
B772-□-C	Lead (Pb)-free and Halogen-free

*□=h_{FE} Rank



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	7.40	7.80	H	1.10	1.50
B	2.50	2.90	J	0.45	0.60
C	10.60	11.00	K	0.66	0.86
D	15.30	15.70	L	2.10	2.30
E	3.70	3.90	M	1.17	1.37
F	3.90	4.10	N	3.00	3.20
G	2.29 TYP.				

ABSOLUTE MAXIMUM RATINGS (T_A=25°C unless otherwise specified)

Parameter	Symbol	Rating	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	1.25	W
Thermal Resistance from Junction-Ambient	R _{θJA}	100	°C/W
Thermal Resistance from Junction-Case	R _{θJC}	8.33	
Junction, Storage Temperature Range	T _J , T _{STG}	150, -55~150	°C

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise specified)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	-40	-	-	V	I _C = -100μA, I _E =0
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	-30	-	-	V	I _C = -10mA, I _B =0
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	-6	-	-	V	I _E = -100μA, I _C =0
Collector Cut-off Current	I _{CBO}	-	-	-1	μA	V _{CB} = -40V, I _E =0
Collector Cut-off Current	I _{CEO}	-	-	-10	μA	V _{CE} = -30V, I _B =0
Emitter Cut-off Current	I _{EBO}	-	-	-1	μA	V _{EB} = -6V, I _C =0
DC Current Gain	h _{FE}	60	-	400		V _{CE} = -2V, I _C = -1A
Collector-Emitter Saturation Voltage	V _{CE(sat)}	-	-	-0.5	V	I _C = -2A, I _B = -0.2A
Base-Emitter Saturation Voltage	V _{BE(sat)}	-	-	-1.5	V	I _C = -2A, I _B = -0.2A
Transition Frequency	f _T	-	80	-	MHz	V _{CE} = -5V, I _C = -0.1A, f=10MHz

CHARACTERISTIC CURVES

