B772

SOT-89 Transistor(PNP)

RoHS COMPLIANT
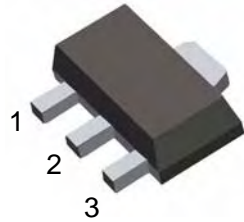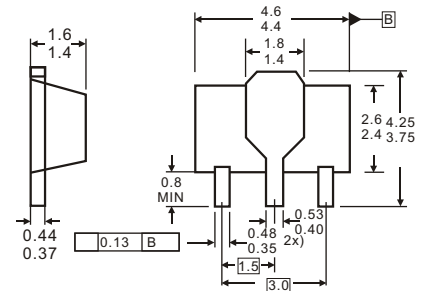

1. BASE

2. COLLETOR

3. EMITTER

SOT-89

Dimensions in inches and (millimeters)

Features

✧ Low speed switching

MAXIMUM RATINGS (T$_A$=25℃ unless otherwise noted)

Symbol	Parameter	Value	Units
V$_{CBO}$	Collector-Base Voltage	-40	V
V$_{CEO}$	Collector-Emitter Voltage	-30	V
V$_{EBO}$	Emitter-Base Voltage	-5	V
I$_C$	Collector Current -Continuous	-3	A
P$_C$	Collector Power Dissipation	0.5	W
T$_j$	Junction Temperature	150	℃
T$_{stg}$	Storage Temperature	-55-150	℃

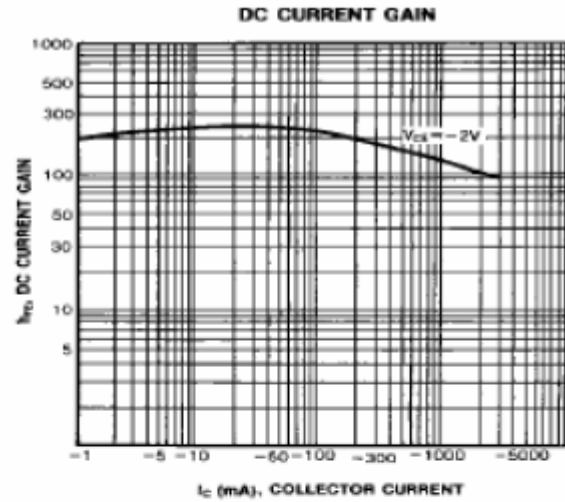## ELECTRICAL CHARACTERISTICS (Tamb=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	V$_{(BR)CBO}$	I$_C$=-100μA ,I$_E$=0	-40			V
Collector-emitter breakdown voltage	V$_{(BR)CEO}$	I$_C$= -10mA , I$_B$=0	-30			V
Emitter-base breakdown voltage	V$_{(BR)EBO}$	I$_E$= -100μA,I$_C$=0	-5			V
Collector cut-off current	I$_{CBO}$	V$_{CB}$= -40V, I$_E$=0			-1	μA
Collector cut-off current	I$_{CEO}$	V$_{CE}$=-30V, I$_B$=0			-10	μA
Emitter cut-off current	I$_{EBO}$	V$_{EB}$=-6V, I$_C$=0			-1	μA
DC current gain	h$_{FE}$	V$_{CE}$= -2V, I$_C$= -1A	60		400	
Collector-emitter saturation voltage	V$_{CE(sat)}$	I$_C$=-2A, I$_B$= -0.2A			-0.5	V
Base-emitter saturation voltage	V$_{BE(sat)}$	I$_C$=-2A, I$_B$= -0.2A			-1.5	V
Transition frequency	f$_T$	V$_{CE}$= -5V, I$_C$=-0.1A f =10MHz		80		MHz

CLASSIFICATION OF hFE

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

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RoHS COMPLIANT

Typical characteristics

STATIC CHARACTERISTIC

DC CURRENT GAIN

BASE-EMITTER SATURATION VOLTAGE
COLLECTOR-EMITTER SATURATION VOLTAGE

COLLECTOR OUTPUT CAPACITANCE

CURRENT GAIN-BANDWIDTH PRODUCT
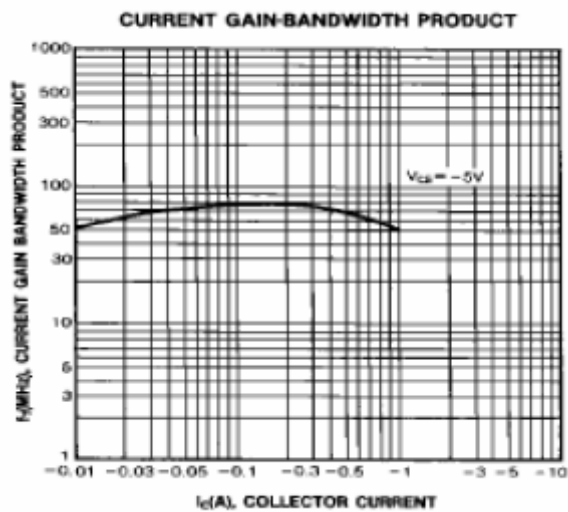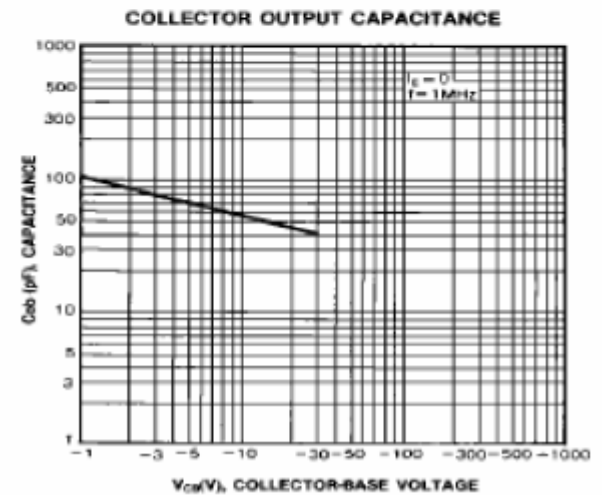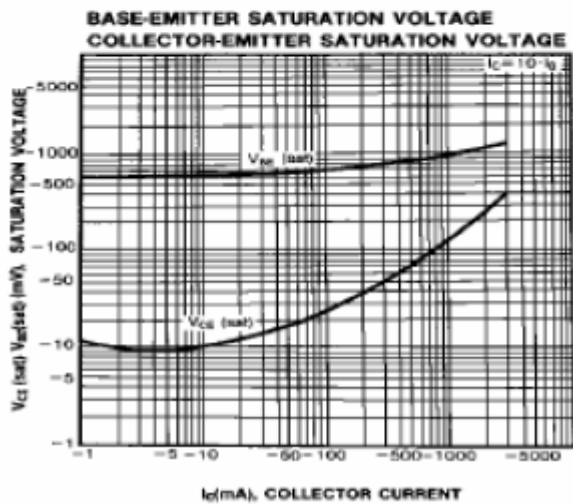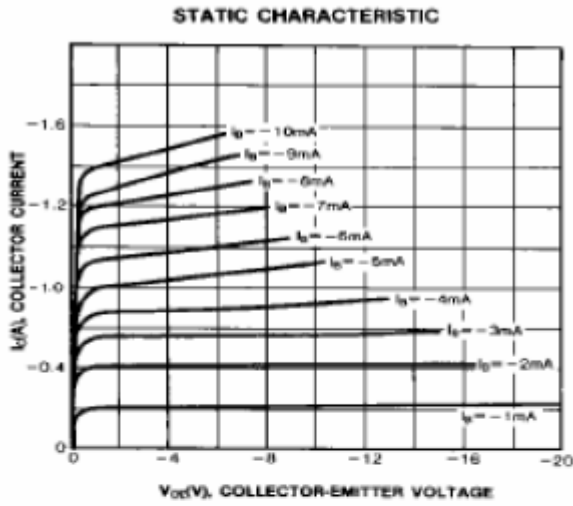
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