

### B772 TRANSISTOR (PNP)

#### FEATURES

Power dissipation

$P_{CM}$ : 500 mW ( $T_{amb}=25^{\circ}C$ )

Collector current

$I_{CM}$ : -3 A

Collector-base voltage

$V_{(BR)CBO}$ : -40 V

Operating and storage junction temperature range

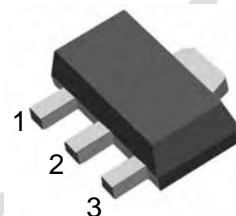
$T_J, T_{stg}$ :  $-55^{\circ}C$  to  $+150^{\circ}C$

#### SOT-89

1. BASE

2. COLLECTOR

3. EMITTER



#### ELECTRICAL CHARACTERISTICS ( $T_{amb}=25^{\circ}C$ unless otherwise specified)

##### CLASSIFICATION OF $h_{FE(1)}$

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=-100\mu A, I_E=0$	-40			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=-10 mA, I_B=0$	-30			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=-100 \mu A, I_C=0$	-6			V
Collector cut-off current	$I_{CBO}$	$V_{CB}=-40 V, I_E=0$			-1	$\mu A$
Collector cut-off current	$I_{CEO}$	$V_{CE}=-30 V, I_B=0$			-10	$\mu A$
Emitter cut-off current	$I_{EBO}$	$V_{EB}=-6V, I_C=0$			-1	$\mu A$
DC current gain	$h_{FE(1)}$	$V_{CE}=-2V, I_C=-1A$	60		400	
	$h_{FE(2)}$	$V_{CE}=-2V, I_C=-100mA$	32			
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	$f_T$	$V_{CE}=-5V, I_C=-0.1A$ $f = 10MHz$	50			MHz

##### CLASSIFICATION OF $h_{FE(1)}$

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