

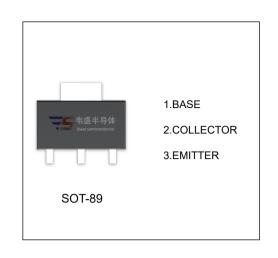
# **2SB766** TRANSISTOR (PNP)

#### **FEATURES**

- Large collector power dissipation P<sub>C</sub>
- Complementary to 2SD874

## MAXIMUM RATINGS (Ta=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit	
V <sub>CBO</sub>	Collector-Base Voltage	-30	V	
V <sub>CEO</sub>	Collector-Emitter Voltage	-25	V	
V <sub>EBO</sub>	Emitter-Base Voltage	-5	V	
Ic	Collector Current -Continuous	-1	Α	
Pc	Collector Power Dissipation	500	mW	
T <sub>J</sub> ,T <sub>stg</sub>	Operation Junction and Storage Temperature Range		°C	



### **ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)**

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V <sub>(BR)CBO</sub>	I <sub>C</sub> =-10 <b>△</b> A, I <sub>E</sub> =0	-30			V
Collector-emitter breakdown voltage	V <sub>(BR)CEO</sub>	I <sub>C</sub> =-2mA, I <sub>B</sub> =0	-25			V
Emitter-base breakdown voltage	V <sub>(BR)EBO</sub>	I <sub>E</sub> =-10∑A, I <sub>C</sub> =0	-5			V
Collector cut-off current	I <sub>CBO</sub>	V <sub>CB</sub> =-20V, I <sub>E</sub> =0			-0.1	<b>⊠</b> A
Emitter cut-off current	I <sub>EBO</sub>	V <sub>EB</sub> =-4V, I <sub>C</sub> =0			-0.1	<b>⊠</b> A
DC comment main	h <sub>FE(1)</sub>	V <sub>CE</sub> =-10V, I <sub>C</sub> =-500mA	85		340	
DC current gain	h <sub>FE(2)</sub>	V <sub>CE</sub> =-5V, I <sub>C</sub> =-1A	50			
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> =-500mA, I <sub>B</sub> =-50mA		-0.2	-0.4	V
Base-emitter saturation voltage	V <sub>BE(sat)</sub>	I <sub>C</sub> =-500mA, I <sub>B</sub> =-50mA		-0.85	-1.2	V
Transition frequency	f <sub>T</sub>	V <sub>CE</sub> =-10V, I <sub>C</sub> =-50mA, f=200MHz		200		MHz
Collector output capacitance	C <sub>ob</sub>	V <sub>CB</sub> =-10V, I <sub>E</sub> =0, f=1MHz		20	30	pF

#### **CLASSIFICATION OF h**<sub>FE(1)</sub>

Rank	Q	R	S
Range	85-170	120-240	170-340
Marking	AQ	AR	AS