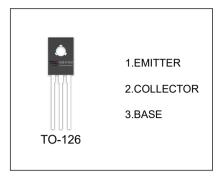


#### 2SD886 TRANSISTOR (NPN)

### **FEATURES**

- Low Voltage High Current



#### **ORDERING INFORMATION**

Part Number	Package	Packing Method	Pack Quantity
2SD886	TO-126	Bulk	200pcs/Bag
2SD886-TU	TO-126	Tube	60pcs/Tube

## MAXIMUM RATINGS ( $T_a$ =25 $^{\circ}$ C unless otherwise noted)

Symbol	Parameter	Value	Unit
V <sub>CBO</sub>	Collector-Base Voltage	50	V
V <sub>CEO</sub>	Collector-Emitter Voltage	50	V
V <sub>EBO</sub>	Emitter-Base Voltage	5	V
Ic	Collector Current	3	А
Pc	Collector Power Dissipation	1	W
R <sub>θJA</sub>	Thermal Resistance From Junction To Ambient	125	°C/W
T <sub>J</sub> ,T <sub>stg</sub>	Operation Junction and Storage Temperature Range	-55~+150	℃



# $T_a$ =25 $^{\circ}$ 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> =100μA,I <sub>E</sub> =0	50			V
Collector-emitter breakdown voltage	V <sub>(BR)CEO</sub>	I <sub>C</sub> =5mA,I <sub>B</sub> =0	50			V
Emitter-base breakdown voltage	V <sub>(BR)EBO</sub>	I <sub>E</sub> =100μA,I <sub>C</sub> =0	5			V
Collector cut-off current	I <sub>CBO</sub>	V <sub>CB</sub> =50V,I <sub>E</sub> =0			1	μA
Emitter cut-off current	I <sub>EBO</sub>	V <sub>EB</sub> =3V,I <sub>C</sub> =0			1	μA
DC current gain	h <sub>FE(1)</sub> *	V <sub>CE</sub> =2V, I <sub>C</sub> =20mA	100			
	h <sub>FE(2)</sub> *	V <sub>CE</sub> =2V, I <sub>C</sub> =1A	100		400	
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> =2A,I <sub>B</sub> =200mA			0.5	V
Base-emitter saturation voltage	V <sub>BE(sat)</sub>	I <sub>C</sub> =2A,I <sub>B</sub> =200mA			2	V
Collector output capacitance	C <sub>ob</sub>	V <sub>CB</sub> =10V,I <sub>E</sub> =0, f=1MHz		45		pF
Transition frequency	f <sub>T</sub>	V <sub>CE</sub> =5V,I <sub>C</sub> =100mA		80		MHz

<sup>\*</sup>Pulse test: pulse width ≤300µs, duty cycle≤ 2.0%.