

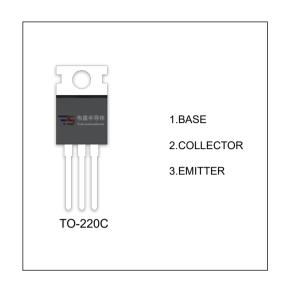
# 2SD882 TRANSISTOR (NPN)

### **FEATURES**

Power Dissipation

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

Symbol	Parameter	Value	Unit	
V <sub>CBO</sub>	Collector-Base Voltage	40	V	
V <sub>CEO</sub>	Collector-Emitter Voltage	30	V	
V <sub>EBO</sub>	Emitter-Base Voltage	6	V	
Ic	Collector Current -Continuous	3	А	
Pc	Collector Power Dissipation	2	W	
T <sub>J</sub> ,T <sub>stg</sub>	Operation Junction and Storage Temperature Range	-55-150	℃	



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

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V(BR) <sub>CBO</sub>	I <sub>C</sub> = 100μA, I <sub>E</sub> =0	40			V
Collector-emitter breakdown voltage	V(BR) <sub>CEO</sub>	I <sub>C</sub> = 10mA, I <sub>B</sub> =0	30			V
Emitter-base breakdown voltage	V(BR) <sub>EBO</sub>	I <sub>E</sub> = 100μΑ, I <sub>C</sub> =0	6			V
Collector cut-off current	I <sub>CBO</sub>	V <sub>CB</sub> = 40 V, I <sub>E</sub> =0			1	μA
Collector cut-off current	I <sub>CEO</sub>	V <sub>CE</sub> = 30 V, I <sub>B</sub> =0			10	μA
Emitter cut-off current	I <sub>EBO</sub>	V <sub>EB</sub> = 6 V, I <sub>C</sub> =0			1	μA
DC current gain	h <sub>FE</sub>	V <sub>CE</sub> = 2 V, I <sub>C</sub> = 1A	60		400	
Collector-emitter saturation voltage	V <sub>CE (sat)</sub>	I <sub>C</sub> = 2A, I <sub>B</sub> = 0.2 A			0.5	V
Base-emitter saturation voltage	V <sub>BE (sat)</sub>	I <sub>C</sub> = 2A, I <sub>B</sub> = 0.2 A			1.5	V
Transition frequency	f <sub>T</sub>	V <sub>CE</sub> = 5V, I <sub>C</sub> =0.1A f =10MHz		90		MHz

### **CLASSIFICATION OF hFE**

<del></del>					
	Rank	R	0	Y	GR
	Range	60-120	100-200	160-320	200-400



