

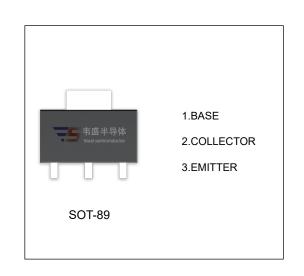
D882 TRANSISTOR (NPN)

FEATURES

Power dissipation

MAXIMUM RATINGS (Ta=25℃ unless otherwise noted)

Symbol	Parameter Value		Unit	
V _{CBO}	Collector-Base Voltage	40	V	
V _{CEO}	Collector-Emitter Voltage	30	V	
V _{EBO}	Emitter-Base Voltage	6	V	
Ic	Collector Current -Continuous	3	Α	
Pc	Collector Power Dissipation	0.5	W	
R _{ΘJA}	Thermal Resistance from Junction to Ambient	rom 250		
Rejc	Thermal Resistance from Junction to Case	35	°C/W	
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	55~150		



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

Parameter	Symbol	Test conditions	Min	Тур	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 = 10mA, I _B =0	30			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E = 100μA, I _C =0	6			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 soin	h _{FE(1)}	V _{CE} =2V, I _C = 1A	60		400	
DC current gain	h _{FE(2)}	V _{CE} =2V, I _C = 100mA	32			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C = 2A, I _B = 0.2 A			0.5	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C = 2A, I _B = 0.2 A			1.5	V
Transition frequency	f⊤	V _{CE} = 5V , Ic=0.1A f =10MHz	50			MHz

CLASSIFICATION OF $h_{\text{FE}(1)}$

Rank	R	0	Υ	GR
Range	60-120	100-200	160-320	200-400



