

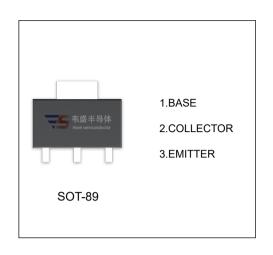
2SD2150 TRANSISTOR (NPN)

FEATURES

- Excellent current-to-gain characteristics
- Low collector saturation voltage V_{CE(sat)}
 V_{CE(sat)}=0.5V(max) for I_C/I_B=2A/0.1A

MAXIMUM RATINGS (Ta=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit	
V _{CBO}	Collector-Base Voltage	40	V	
V _{CEO}	Collector-Emitter Voltage	20	V	
V _{EBO}	Emitter-Base Voltage	6	V	
Ic	Collector Current -Continuous	3	А	
Pc	Collector Power Dissipation	500	mW	
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~150	°C	



ELECTRICAL CHARACTERISTICS (Ta=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =50uA, I _E =0	40			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =1mA, I _B =0	20			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =50μA, I _C =0	6			V
Collector cut-off current	I _{CBO}	V _{CB} =30V, I _E =0			0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =5V, I _C =0			0.1	μA
DC current gain	h _{FE} *	V _{CE} =2V, I _C =100mA	180		560	
Collector-emitter saturation voltage	V _{CE(sat)} *	I _C =2A, I _B =100mA			0.5	V
Transition frequency	f _T ∗	V _{CE} =2V,I _C =500mA f=100MHz		290		MHz
Collector output capacitance	C _{ob}	V _{CB} =10V, I _E =0, f=1MHz		25		pF

^{*}Pulse test: t_p≤300μS, δ≤0.02.

CLASSIFICATION OF her

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Rank	R	S				
Range	180-390	270-560				
Marking	CFR	CFS				



