

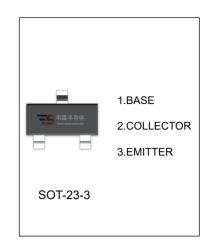
2SC2859 TRANSISTOR (NPN)

FEATURES

- Excellent h_{FE} Linearity
- Switching Applications

MAXIMUM RATINGS (T₃=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	35	V
V _{CEO}	Collector-Emitter Voltage	30	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current	500	mA
Pc	Collector Power Dissipation	150	mW
R _{OJA}	Thermal Resistance From Junction To Ambient	833	°C/W
T_J, T_stg	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)CBO}	I _C =100μA, I _E =0	35			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =1mA, I _B =0	30			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =100μA, I _C =0	5			V
Collector cut-off current	I _{CBO}	V _{CB} =35V, I _E =0			0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =5V, I _C =0			0.1	μA
DC ourrent gain	h _{FE(1)}	V _{CE} =1V, I _C =100mA	70		400	
DC current gain	h _{FE(2)}	V _{CE} =6V, I _C =400mA	25			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =100mA, I _B =10mA			0.25	V
Base-emitter voltage	V _{BE}	V _{CE} =1V,I _C =100mA,			1	V
Transition frequency	f⊤	V _{CE} =6V,I _C =20mA		300		MHz
Collector output capacitance	Cob	V _{CB} =6V, I _E =0, f=1MHz		7		pF

CLASSIFICATION OF h_{FE(1)}, h_{FE(2)}

RANK	0	Υ	GR(G)	
RANGE h _{FE(1)}	70 - 140	120 - 240	200 - 400	
RANGE h _{FE(2)}	25Min	40Min	70Min	
MARKING	WO	WY	WG	



