

2SC2873 TRANSISTOR (NPN)

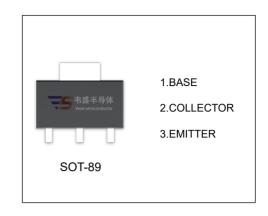
FEATURES

- Small Flat Package
- High Speed Switching Time
- Low Collector-emitter saturation voltage
- Complementary to 2SA1213

APPLICATIONS

Power Amplifier and Switching

MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)



Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	50	V
V _{CEO}	Collector-Emitter Voltage	50	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current	2	Α
Pc	Collector Power Dissipation	500	mW
R _{0JA}	Thermal Resistance From Junction To Ambient	250	°C/W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C

ELECTRICAL CHARACTERISTICS (T_a=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =100μA,I _E =0	50			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =1mA,I _B =0	50			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =100μA,I _C =0	5			V
Collector cut-off current	I _{CBO}	V _{CB} =50V,I _E =0			0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =5V,I _C =0			0.1	μA
DC ourrent sein	h _{FE(1)}	V _{CE} =2V, I _C =0.5A	70		240	
DC current gain	h _{FE(2)}	V _{CE} =2V, I _C =2A	20			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =1A,I _B =50mA			0.5	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =1A,I _B =50mA			1.2	V
Transition frequency	f _T	VcE=2V,Ic=0.5A		120		MHz
Collector output capacitance	Cob	V _{CB} =10V, I _E =0, f=1MHz		30		pF

CLASSIFICATION OF h_{FE(1)}

RANK	0	Υ		
RANGE	70 - 140	120 - 240		
MARKING	МО	MY		



