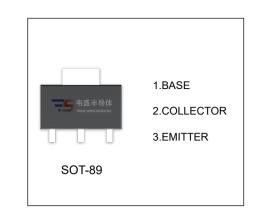


2SD874 TRANSISTOR (NPN)

FEATURES

- Low Collector-Emitter Saturation Voltage
- Large Collector Power Dissipation



Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	30	V
V _{CEO}	Collector-Emitter Voltage	25	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current	1	А
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°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =10μA,I _E =0	30			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =2mA,I _B =0	25			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =10μA,I _C =0	5			V
Collector cut-off current	I _{CBO}	V _{CB} =20V,I _E =0			0.1	μΑ
Emitter cut-off current	I _{EBO}	V _{EB} =4V,I _C =0			0.1	μΑ
DC current gain	h _{FE(1)}	V _{CE} =10V, I _C =500mA	85		340	
DC current gam	h _{FE(2)}	V _{CE} =5V, I _C =1A	50			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =500mA,I _B =50mA			0.4	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =500mA,I _B =50mA			1.2	V
Transition frequency	f _T	VcE=10V,Ic=50mA, f=200MHz		200		MHz
Collector output capacitance	Cob	V _{CB} =10V, I _E =0, f=1MHz			20	pF

CLASSIFICATION OF h_{FE(1)}

RANK	Q	R	S
RANGE	85 - 170	120 - 240	170 - 340
MARKING	ZQ	ZR	ZS