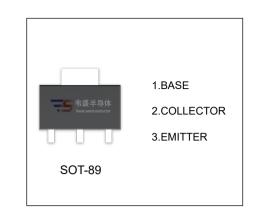


2SC4375 TRANSISTOR (NPN)

FEATURES

- Small Flat Package
- Low Collector- Emitter Saturation Voltage



MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	30	V
V _{CEO}	Collector-Emitter Voltage	30	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current	1.5	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	$^{\circ}$

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 =1mA,I _E =0	30			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 =1mA,I _C =0	5			V
Collector cut-off current	I _{CBO}	V _{CB} =30V,I _E =0			0.1	μΑ
Emitter cut-off current	I _{EBO}	V _{EB} =5V,I _C =0			0.1	μΑ
DC current gain	h _{FE}	V _{CE} =2V, I _C =500mA	100		320	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =1.5A,I _B =30mA			2	V
Base-emitter voltage	V _{BE}	V _{CE} =2V, I _C =500mA			1	V
Transition frequency	f _T	VcE=2V,Ic=500mA		120		MHz
Collector output capacitance	C _{ob}	V _{CB} =10V, I _E =0, f=1MHz			40	pF

CLASSIFICATION OF h_{FE}

RANK	0	Υ		
RANGE	100 - 200	160 - 320		
MARKING	GO	GY		