

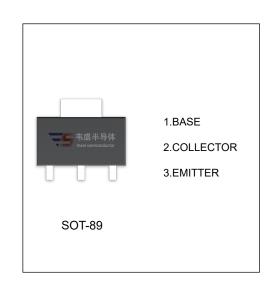
KTC4375 TRANSISTOR (NPN)

FEATURES

Low voltage

MAXIMUM RATINGS (Ta=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 -Continuous	1.5	Α	
Pc	Collector Power Dissipation	0.5	W	
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~150	°C	



ELECTRICAL CHARACTERISTICS (Ta=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	Ісво	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 =0.5A	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 =0.5A			1	V
Transition frequency	f _T	V _{CE} =2V,I _C =500mA		120		MHz
Collector output capacitance	C _{ob}	V _{CB} =10V,I _E =0,f=1MHz			40	pF

CLASSIFICATION OF $h_{\text{FE}(1)}$

Rank	0	Υ		
Range	100-200	160-320		
Marking	GO	GY		



