

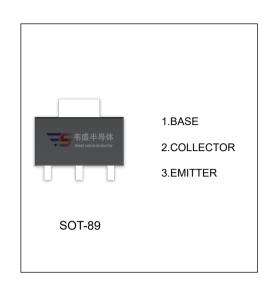
KTC4379 TRANSISTOR (NPN)

FEATURES

- Low saturation voltage
- High speed switching time
- Complementary to KTA1666

MAXIMUM RATINGS (Ta=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit	
V _{СВО}	Collector-Base Voltage	50	V	
V _{CEO}	Collector-Emitter Voltage	50	V	
V _{EBO}	Emitter-Base Voltage	5	V	
Ic	Collector Current -Continuous	2	Α	
Pc	Collector Power Dissipation	500	mW	
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~150	°C	



ELECTRICAL CHARACTERISTICS (Ta=25℃ unless otherwise specified)

Parameter		Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage		V _{(BR)CBO}	I _C =1mA, I _E =0	50			V
Collector-emitter breakdown voltage		V _{(BR)CEO}	I _C =10mA, I _B =0	50			V
Emitter-base breakdown voltage		V _{(BR)EBO}	I _E =1mA, 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 current gain		h _{FE(1)}	V _{CE} =2V, I _C =500mA	70		240	
		h _{FE(2)}	V _{CE} =2V, I _C =1.5A	40			
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	V _{CE} =2V, I _C =500mA		120		MHz
Collector output capacitance		C _{ob}	V _{CB} =10V, I _E =0, f=1MHz		30		pF
Switching Time	Turn on Time	t _{on}			0.1		
	Storage Time	t _{stg}	V _{CC} =30V, I _C =1A, I _{B1} =-I _{B2} =-0.05A		1.0		μs
	Fall Time	t _f			0.1		

CLASSIFICATION OF h_{FE(1)}

Rank	0	Y		
Range	70-140	120-240		
Marking	UO	UY		



