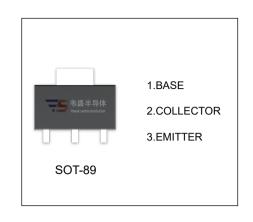


KTD1302 TRANSISTOR (NPN)

FEATURES

- Small Flat Package
- Audio Muting Application
- High Emitter-Base Voltage



MAXIMUM RATINGS (Ta=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	25	V
V _{CEO}	Collector-Emitter Voltage	20	V
V _{EBO}	Emitter-Base Voltage	12	V
Ic	Collector Current	300	mA
Pc	Collector Power Dissipation	500	mW
R _{θJA}	Thermal Resistance From Junction To Ambient	250	°C/W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	℃

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 =0.1mA,I _E =0	25			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =1mA,I _B =0	20			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =0.1mA,I _C =0	12			V
Collector cut-off current	I _{CBO}	V _{CB} =25V,I _E =0			100	nA
Emitter cut-off current	I _{EBO}	V _{EB} =12V,I _C =0			100	nA
DC current sein	h _{FE(1) (FOR)}	V _{CE} =2V, I _C =4mA	200		800	
DC current gain	h _{FE(2)(REV)}	V _{CE} =2V, I _C =4mA	20			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =100mA,I _B =10mA			0.25	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =100mA,I _B =10mA			1	V
Collector output capacitance	C _{ob}	V _{CB} =10V,I _E =0, f=1MHz		10		pF
Transition frequency	f _T	VcE=10V,Ic=1mA,		60		MHz
Transition frequency		f=100MHz				