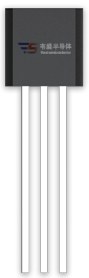
STB1277 TRANSISTOR (PNP)



TO-92

1.EMITTER
2.COLLECTOR
3.BASE

FEATURES

- Audio power amplifier
- High current application
- High current : I_C=-2A
- Complementary pair with STD1862

ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
STB1277	TO-92	Bulk	1000pcs/Bag
STB1277-TA	TO-92	Tape	2000pcs/Box

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
I_C	Collector Current -Continuous	-2	A
P_C	Collector Power Dissipation	625	mW
T_J,T_{stg}	Operation Junction and Storage Temperature Range	-55-150	℃

T_a=25℃ unless otherwise specified

Parameter	Symbol	T est condi tions	Min	T yp	Max	Unit
Collector-base breakdown voltage	V_{CBO}	I_C= -100uA, I_E=0 -30				V
Collector-emitter breakdown voltage	V_{CEO}	I_C= -1mA , I_B=0 -30				V
Emitter-base breakdown voltage	V_{EBO}	I_E= -1mA, I_C=0 -5				V
Collector cut-off current	I_{CBO}	V_{CB}= -30 V, I_E=0			-0.1	uA
Emitter cut-off current	I_{EBO}	V_{EB}= -5V, I_C=0			-0.1	uA
DC current gain	h_{FE}	V_{CE}=-2V, I_C= -500mA	100		320	
Collector-emitter saturation voltage	$V_{CE(sat)}$	I_C=-2A, I_B= -0.2A			-0.8	V
Base-emitter on voltage	$V_{BE(on)}$	V_{CE}=-2V, I_C= -500mA			-1	V
Transition frequency	f_T	V_{CE}= -5V, I_C= -50mA		170		MHz
Collector Output Capacitance	Cob V	$_{CB}$=-10V,I_E=0,f=1MH$_Z$	48			pF

CLASSIFICATION h_{FE}

Rank	O	Y
Range	100-200	160- 320