

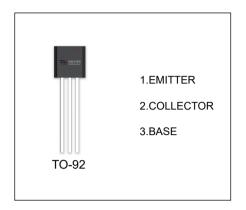
2SC3199 TRANSISTOR (NPN)

FEATURES

- High Current Capability
- High DC Current Gain
- Small Package

APPLICATIONS

- Audio Amplifier Applications
- AM Amplifier Applications



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
2SC3199	TO-92	Bulk	1000pcs/Bag
2SC3199-TA	TO-92	Tape	2000pcs/Box

MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	50	V
V _{CEO}	Collector-Emitter Voltage	50	V
V _{EBO}	V _{EBO} Emitter-Base Voltage		V
Ic	I _C Collector Current		А
Pc	P _C Collector Power Dissipation		mW
R ₀ JA	R _{0 JA} Thermal Resistance From Junction To Ambient		°C /W
T _J ,T _{stg}	T _J ,T _{stg} Operation Junction and Storage Temperature Range		°C



Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = 0.1mA,I _E =0	50			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =1mA,I _B =0	50			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =0.1mA,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}	V _{CE} =6V, I _C =2mA	70		700	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =100mA,I _B =10mA			0.25	V
Collector output capacitance	C _{ob}	V _{CB} =10V,I _E =0, f=1MHz			3.5	pF
Transition frequency	f _T	VcE=10V,Ic=1mA	80			MHz

CLASSIFICATION OF h_{FE}

RANK	0	Υ	GR	BL
RANGE	70-140	120-240	200-400	300-700