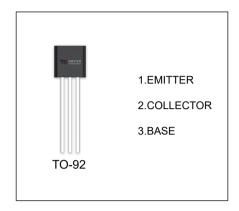


2SC2001 TRANSISTOR (NPN)

FEATURES

• High h_{FE} and Low $V_{CE(sat)}$ $h_{FE}(I_C=100\text{mA}): 200(Typ)$ $V_{CE(sat)}(700\text{mA}): 0.2V (Typ)$



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
2SC2001	TO-92	Bulk	1000pcs/Bag
2SC2001-TA	TO-92	Tape	2000pcs/Box

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

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	30	V
V _{CEO}	Collector-Emitter Voltage	25	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current -Continuous	700	mA
Pc	Collector Power Dissipation	600	mW
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55-150	$^{\circ}$



$T_a \text{=} 25\,^\circ\!\!\!\subset\,$ unless otherwise specified

Parameter	S ymbol	T est condi tions	M in	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =100μA, I _E =0	30		V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =10mA , I _B =0	25		V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =100μA, I _C =0 5			V
Collector cut-off current	Ісво	V _{CB} =30 V, I _E =0		0.1	μA
Collector cut-off current	I _{CEO}	V _{CE} =20 V, I _B =0		0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =5 V, I _C =0		0.1	μA
DC current gain	h _{FE}	V _{CE} =1V, I _C =100mA 90		400	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =700mA, I _B = 70mA		0.6	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C = 700mA, I _B =70mA		1.2	V
Transition frequency	f _T	V_{CE} =6V, I_{C} = 10mA f = 30MHz	50		MHz

CLASSIFICATION OF h_{FE}

Rank	M	L	К
Range	90-180 135-	270	200-400



