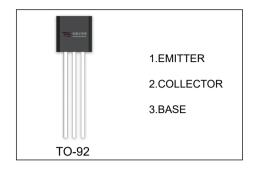


2SD2097 TRANSISTOR (NPN)

FEATURES

- Low $V_{CE(sat)}.V_{CE(sat)} = 0.25V (Typ.)(I_C/I_B= 4A / 0.1A)$
- Excellent Dc current gain characteristics



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
2SD2097	TO-92	Bulk	1000pcs/Bag
2SD2097-TA	TO-92	Tape	2000pcs/Box

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

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	50	V
V _{CEO}	Collector-Emitter Voltage	20	V
V _{EBO}	Emitter-Base Voltage	6	V
I _c	Collector Current -Continuous	5	Α
Pc	Collector Power Dissipation	0.625	W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C



T_a =25 $^{\circ}$ C unless otherwise specified

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =50μA,I _E =0	50			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 =50μA,I _C =0	6			V
Collector cut-off current	I _{CBO}	V _{CB} =40V,I _E =0			0.5	μA
Emitter cut-off current	I _{EBO}	V _{EB} =5V,I _C =0			0.5	μA
DC current gain	h _{FE}	V _{CE} =2V,I _C =0.5A	120		390	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =4A,I _B =100mA			1	V
Transition frequency	f⊤	V _{CE} =6V,I _C =50mA,f=100MHz		150		MHz
Collector output capacitance	C _{ob}	V _{CB} =20V,I _E =0,f=1MHz		30		pF

CLASSIFICATION OF hFE

Rank	Q	R
Range	120-270	180-390