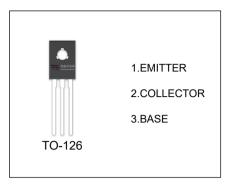


2SC2314 TRANSISTOR (NPN)

FEATURES

• Transceiver Driver Applications



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
2SC2314	TO-126	Bulk	200pcs/Bag
2SC2314-TU	TO-126	Tube	60pcs/Tube

MAXIMUM RATINGS (T_a =25 $^{\circ}$ C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	75	V
V _{CEO}	Collector-Emitter Voltage	45	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current	1	Α
Pc	Collector Power Dissipation	0.75	W
R _{0JA}	Thermal Resistance From Junction To Ambient	167	°C/W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	℃



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

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =10µA,I _E =0	75			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =1mA,I _B =0	45			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =10μΑ,I _C =0	5			V
Collector cut-off current	I _{CBO}	V _{CB} =40V,I _E =0			1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =4V,I _C =0			1	μA
DC current gain	h _{FE}	V _{CE} =5V, I _C =500mA	60		320	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =500mA,I _B =50mA			0.6	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =500mA,I _B =50mA			1.2	V
Collector output capacitance	C _{ob}	V _{CB} =10V,I _E =0, f=1MHz			25	pF
Transition frequency	f⊤	V _{CE} =10V,I _C =50mA	180			MHz

CLASSIFICATION OF h_{FE}

RANK	D	E	F
RANGE	60-120	100-200	160-320