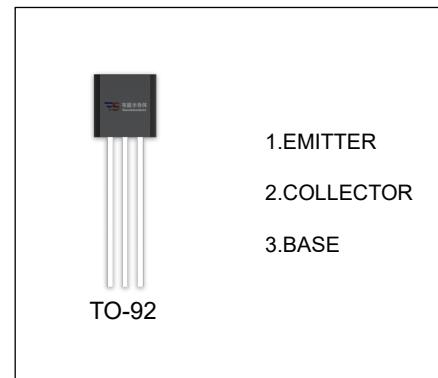


2SC1674 TRANSISTOR (NPN)

FEATURES

- General Purpose Switching and Amplification.



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
2SC1674	TO-92	Bulk	1000pcs/Bag
2SC1674-TA	TO-92	Tape	2000pcs/Box

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

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	30	V
V_{CEO}	Collector-Emitter Voltage	20	V
V_{EBO}	Emitter-Base Voltage	4	V
I_c	Collector Current -Continuous	0.02	A
P_D	Collector Power Dissipation	250	mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	500	$^\circ\text{C}/\text{W}$
T_J, T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	$^\circ\text{C}$

T_a=25 °C unless otherwise specified

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = 0.1mA,I _E =0	30			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 =0.1mA,I _C =0	4			V
Collector cut-off current	I _{CBO}	V _{CB} =30V,I _E =0			0.1	μA
Collector cut-off current	I _{CEO}	V _{CE} =20V,I _B =0			0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =3V,I _C =0			0.1	μA
DC current gain	h _{FE}	V _{CE} =6V, I _C =1mA	40		180	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =10mA,I _B =1mA			0.3	V
Base-emitter voltage	V _{BE}	V _{CE} =6V, I _C =1mA	0.65		0.77	V
Collector output capacitance	C _{ob}	V _{CB} =6V,I _E =0,f=1MHz			1.3	pF
Transition frequency	f _T	V _{CE} =6V,I _C =1mA	400			MHz

CLASSIFICATION OF h_{FE}

RANK	Y	GR	BL
RANGE	40-80	60-120	90-180