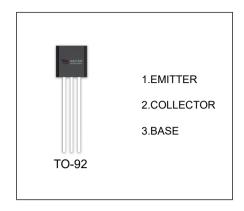


2SC2274 TRANSISTOR (NPN)

FEATURES

- High Breakdown Voltage
- High Current
- Low Saturation Voltage



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
2SC2274	TO-92	Bulk	1000pcs/Bag
2SC2274-TA	TO-92	Tape	2000pcs/Box

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

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	60	V
V _{CEO}	Collector-Emitter Voltage	50	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current -Continuous	0.5	А
P _D	Collector Power Dissipation	600	mW
R _{θ JA}	Thermal Resistance from Junction to Ambient	208	°C /W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C



Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	$I_C = 0.01 \text{mA}, I_E = 0$	60			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 =0.01mA,I _C =0	5			V
Collector cut-off current	I _{CBO}	V _{CB} =40V,I _E =0			1	μΑ
Emitter cut-off current	I _{EBO}	V _{EB} =4V,I _C =0			1	μΑ
DC current gain	h _{FE(1)}	V _{CE} =5V, I _C =50mA	60		320	
	h _{FE(2)} *	V _{CE} =5V, I _C =400mA	35			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =400mA,I _B =40mA			0.6	V
Base-emitter saturation voltage	V _{BE (sat)}	I _C =400mA,I _B =40mA			1.2	V
Collector output capacitance	C _{ob}	V _{CB} =10V, f=1MHz		5		pF
Transition frequency	f _T	VcE=10V,Ic=10mA		120		MHz

^{*}Pulse test

CLASSIFICATION OF h_{FE(1)}

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



