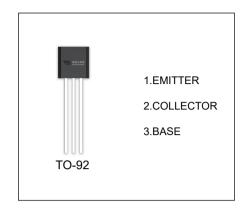


KSD471A TRANSISTOR (NPN)

FEATURES

- Complement To KSB564A
- Low V_{CE(sat)}



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
KSD471A	TO-92	Bulk	1000pcs/Bag
KSD471A-TA	TO-92	Tape	2000pcs/Box

MAXIMUM RATINGS (Ta=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	40	V
V _{CEO}	Collector-Emitter Voltage	30	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current -Continuous	1	А
P _D	Collector Power Dissipation	800	mW
R ₀ JA	Thermal Resistance from Junction to Ambient	150	°C /W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	$^{\circ}$



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 = 0.1mA,I _E =0	40			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =10mA,I _B =0	30			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =0.1mA,I _C =0	5			V
Collector cut-off current	I _{CBO}	V _{CB} =30V,I _E =0			0.1	μA
DC current gain	h _{FE}	V _{CE} =1V, I _C =100mA	70		400	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =1A,I _B =0.1A			0.5	V
Base-emitter saturation voltage	V _{BE (sat)}	I _C =1A,I _B =0.1A			1.2	V
Collector output capacitance	Cob	V _{CB} =6V,I _E =0, f=1MHz		16		pF
Transition frequency	f _T	Vce=6V,lc=10mA		130		MHz

CLASSIFICATION OF h_{FE}

RANK	0	Y	G
RANGE	70-140	120-240	200-400



