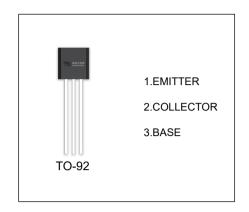


KSC5019 TRANSISTOR (NPN)

FEATURES

- Low V_{CE(sat)}
- General Purpose Amplifier Transistor



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
KSC5019	TO-92	Bulk	1000pcs/Bag
KSC5019-TA	TO-92	Tape	2000pcs/Box

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

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	30	V
V _{CEO}	Collector-Emitter Voltage	10	V
V _{EBO}	V _{EBO} Emitter-Base Voltage		V
Ic	Collector Current	2	Α
Pc	P _C Collector Power Dissipation		mW
R _{θJA}	R _{0JA} Thermal Resistance From Junction To Ambient		°C/W
T _J ,T _{stg} Operation Junction and Storage Temperature Range		-55~+150	℃

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Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = 0.1mA,I _E =0	30			V
Collector-emitter breakdown	V _{(BR)CEO}	I _C =10mA,I _B =0	10			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =1mA,I _C =0	6			V
Collector cut-off current I _{CBO} \		V _{CB} =30V,I _E =0			0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =6V,I _C =0			0.1	μA
DC ourrent sein	h _{FE(1)}	V _{CE} =1V, I _C =500mA	140		600	
DC current gain	h _{FE(2)}	V _{CE} =1V, I _C =2A	70			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =2A,I _B =50mA			0.5	V
Base-emitter voltage	V _{BE}	V _{CE} =1V, I _C =500mA			1.5	V
Collector output capacitance	C _{ob}	V _{CB} =10V,I _E =0, f=1MHz		27		pF
Transition frequency	f _T	VcE=1V,Ic= 500mA		150		MHz

CLASSIFICATION OF $h_{\text{FE}(1)}$

RANK	L	М	N	Р	
RANGE	140-240	200-330	300-450	420-600	