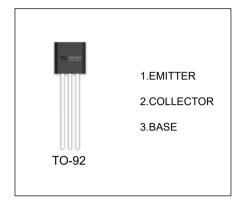


8050SS TRANSISTOR (NPN)

FEATURES

General Purpose Switching and Amplification.



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
8050SS	TO-92	Bulk	1000pcs/Bag
8050SS-TA	TO-92	Tape	2000pcs/Box

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

Symbol	Parameter	Value	Unit	
V _{CBO}	Collector-Base Voltage	40	V	
V _{CEO}	Collector-Emitter Voltage	25	V	
V _{EBO}	Emitter-Base Voltage	5	V	
I _C	Collector Current	1.5	А	
Pc	Collector Power Dissipation	1	W	
R _{0JA}	Thermal Resistance From Junction To Ambient	125	°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 = 0.1mA,I _E =0	40			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =0.1mA,I _B =0	25			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} =40V,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} =5V,I _C =0			0.1	μA
DC comment asim	h _{FE(1)}	V _{CE} =1V, I _C =100mA	85		300	
DC current gain	h _{FE(2)}	V _{CE} =1V, I _C =800mA	40			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =800mA,I _B =80mA			0.5	V
Base-emitter saturation voltage	V _{BE (sat)}	I _C =800mA,I _B =80mA			1.2	V
Base-emitter voltage	V _{BE}	V _{CE} =1V, I _C =10mA			1.0	V
Collector output capacitance	C _{ob}	V _{CB} =10V,I _E =0, f=1MHz			15	pF
Transition frequency	f _T	VcE=10V,Ic= 50mA, f=30MHz	100			MHz

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

RANK	В	С	D
RANGE	85-160	120-200	160-300



