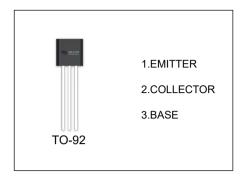


2SD2152 TRANSISTOR (NPN)

FEATURES

- High DC Current Gain
- Low Saturation Medium Current Application



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
2SD2152	TO-92	Bulk	1000pcs/Bag
2SD2152-TA	TO-92	Tape	2000pcs/Box

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

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	22	V
V _{CEO}	Collector-Emitter Voltage	22	V
V _{EBO}	Emitter-Base Voltage	6	V
Ic	Collector Current	3	Α
Pc	Collector Power Dissipation	700	mW
R _{θJA}	Thermal Resistance From Junction To Ambient	178	°C /W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	℃



Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = 0.05mA,I _E =0	22			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =1mA,I _B =0	22			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =0.01mA,I _C =0	6			V
Collector cut-off current	I _{CBO}	V _{CB} =20V,I _E =0			0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =5V,I _C =0			0.1	μA
	h _{FE(1)}	V _{CE} =2V, I _C =0.15mA	130			
DC current gain	h _{FE(2)}	V _{CE} =2V, I _C =100mA	180		950	
	h _{FE(3)}	V _{CE} =2V, I _C =500mA	180			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =2000mA,I _B =100mA			0.4	V
Transition frequency	f _T	VcE=6V,Ic=50mA, f=30MHz 150		MHz		

CLASSIFICATION OF h_{FE}

RANK	Q	R	S	Т
RANGE	180-290	270-380	340-560	560-950