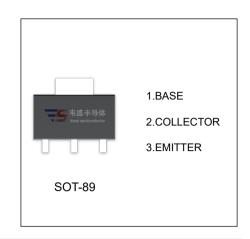


2SD2153 TRANSISTOR (NPN)

FEATURES

- Low saturation voltage
- Excellent DC current gain characteristics



MAXIMUM RATINGS(T_a=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit
Vсво	Collector -Base Voltage	30	V
VCEO	Collector-Emitter Voltage	25	V
VEBO	Emitter-Base Voltage	6	V
Ic	Continuous Collector Current	2	А
Icp*	Pulsed Collector Current	3	А
Pc	Collector Dissipation	0.5	W
R _{θJA}	Thermal Resistance from Junction to Ambient	250	°C/ W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C

ELECTRICAL CHARACTERISTICS(T_a=25℃ unless otherwise noted)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =50μA,I _E =0	30			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =1mA,I _B =0	25			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =50μA, I _C =0	6			V
Collector cut-off current	I _{CBO}	V _{CB} =20V,I _E =0			0.5	μA
Emitter cut-off current	I _{EBO}	V _{EB} =5V,I _C =0			0.5	μA
DC current gain	h _{FE}	V _{CE} =6V,I _C =500mA	560		2700	
Collector-emitter saturation voltage	V _{CE(sat)} *	I _C =1A,I _B =20mA			0.5	V
Transition frequency	f _T	V _{CE} =10V,I _C =10mA,f=100MHz		110		MHz
Collector capacitance	Cob	V _{CB} =10V, I _E =0,f=1MHz		22		pF

^{*}Single pulse, P_W=10ms

CLASSIFICATION OF hFE

Rank	U	V	W
Range	560~1200	820~1800	1200~2700



