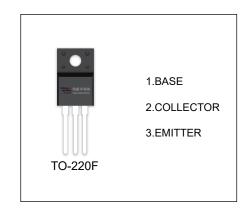


2SD1761 TRANSISTOR (NPN)

FEATURES

- Low Collector Saturation Voltage:
 V_{ce(sat)}=0.3V(Typ.),I_C/I_B=2A/0.2A
- Excellent Current Characteristics of DC Current Gain.
- Large Collector Power Dissipation: P_C=30W(T_C=25℃)
- Complementary Pair with 2SB1187



MAXIMUM RATINGS (Ta=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	80	V
V _{CEO}	Collector-Emitter Voltage	60	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current -Continuous	3	А
Pc	Collector Power dissipation	2	W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55-150	°C

ELECTRICAL CHARACTERISTICS (Ta=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =50uA, I _E =0	80			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =1mA,I _B =0	60			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =50uA,I _C =0	5			V
Collector cut-off current	I _{CBO}	V _{CB} =60V,I _E =0			10	uA
Emitter cut-off current	I _{EBO}	V _{EB} =4V,I _C =0			10	uA
DC current gain	h _{FE(1)}	V _{CE} =5V,I _C =0.5A	60		320	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =2A,I _B =0.2A			1	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =2A,I _B =0.2A			1.5	V
Transition frequency	f⊤	V _{CE} =5V,I _C =0.5A		8		MHz
Collector output capacitance	Cob	V _{CB} =10V,I _E =0,f=1MHz		90		pF

CLASSIFICATION OF h_{FE(1)}

Rank	D	E	F
Range	60-120	100-200	160-320



