

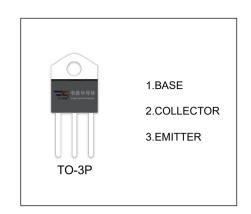
2SD718 TRANSISTOR (NPN)

FEATURES

- High Breakdown Voltage
- Complementary to 2SB688

APPLICATIONS

Power Amplifier Applications



MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	120	V
V _{CEO}	Collector-Emitter Voltage	120	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current	8	Α
Pc	Collector Power Dissipation	3	W
R _{θJA}	Thermal Resistance From Junction To Ambient	42	°C/W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C

ELECTRICAL CHARACTERISTICS (T_a =25 $^{\circ}$ C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =100μA,I _E =0	120			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =50mA,I _B =0	120			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =100μA,I _C =0	5			V
Collector cut-off current	I _{CBO}	V _{CB} =120V,I _E =0			10	μA
Emitter cut-off current	I _{EBO}	V _{EB} =5V,I _C =0			10	μA
DC current gain	h _{FE} *	V _{CE} =5V, I _C =1A	55		160	
Collector-emitter saturation voltage	V _{CE(sat)} *	I _C =5A,I _B =500mA			2.5	V
Base-emitter voltage	V _{BE} *	V _{CE} =5V, I _C =5A			1.5	V
Collector output capacitance	C _{ob}	V _{CB} =10V,I _E =0, f=1MHz		280		pF
Transition frequency	f _T	Vce=5V,Ic=1A, f=1MHz		10		MHz

^{*}Pulse test

CLASSIFICATION OF h_{FE}

RANK	R	0
RANGE	55-110	80-160