

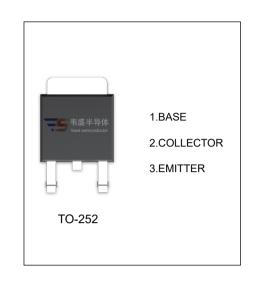
2SD1758 TRANSISTOR (NPN)

FEATURES

• Low $V_{CE(sat)}$. $V_{CE(sat)} = 0.5V (Typ.)(I_C/I_B = 2A/0.2A)$

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

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Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	40	V
V _{CEO}	Collector-Emitter Voltage	32	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current -Continuous	2	А
Pc	Collector dissipation	1.2	W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55-150	℃



ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =50μA, I _E =0	40			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =1mA, I _B =0	32			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =50μA, I _C =0	5			V
Collector cut-off current	I _{CBO}	V _{CB} =20V, I _E =0			1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =4V, I _C =0			1	μA
DC current gain	h _{FE}	V _{CE} =3V, I _C =500mA	82		390	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =2A, I _B =0.2A			0.8	V
Transition frequency	f _T	V _{CE} =5V, I _C =50mA, f=100MHz		100		MHz
Collector output capacitance	C _{ob}	V _{CB} =10V, I _E =0, f=1MHz		30		pF

CLASSIFICATION OF hFE

Rank	Р	Q	R
Range	82-180	120-270	180-390