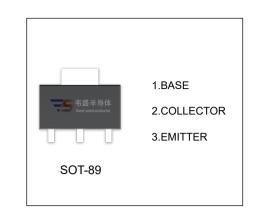


2SD1767 TRANSISTOR (NPN)

FEATURES

- High Breakdown Voltage and Current
- Excellent DC Current Gain Linearity
- Complement the 2SB1189

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



Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	80	V
V _{CEO}	Collector-Emitter Voltage	80	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current	700	mA
Pc	Collector Power Dissipation	500	mW
R _{0JA}	Thermal Resistance From Junction To Ambient	250	°C/W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	℃

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 =50μA,I _E =0	80			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =2mA,I _B =0	80			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =50μA,I _C =0	5			V
Collector cut-off current	I _{CBO}	V _{CB} =50V,I _E =0			0.5	μA
Emitter cut-off current	I _{EBO}	V _{EB} =4V,I _C =0			0.5	μA
DC current gain	h _{FE}	V _{CE} =3V, I _C =100mA	82		390	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =500mA,I _B =50mA			0.4	V
Transition frequency	f _T	VcE=10V,Ic=50mA, f=100MHz		120		MHz
Collector output capacitance	C _{ob}	V _{CB} =10V, I _E =0, f=1MHz		10		pF

CLASSIFICATION OF h_{FE}

RANK	Р	Q	R
RANGE	82 - 180	120 - 270	180 - 390
MARKING	DCP	DCQ	DCR



