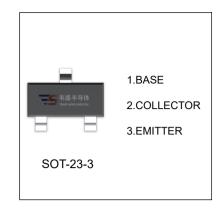


2SD601A TRANSISTOR (NPN)

FEATURE

- High h_{FE}
- Low V_{CE(sat)}
- For general amplification
- Complementary to 2SB709A



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

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	60	V
V _{CEO}	Collector-Emitter Voltage	50	V
V _{EBO}	Emitter-Base Voltage	7	V
Ic	Collector Current	100	mA
Pc	Collector Power Dissipation	200	mW
R _{OJA}	Thermal Resistance from Junction to Ambient	625	°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 =10μA, I _E =0	60			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =2mA, I _B =0	50			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =10μA, I _C =0	7			V
Collector cut-off current	I _{CBO}	V _{CB} =20V, I _E =0			0.1	μA
Collector cut-off current	I _{CEO}	V _{CE} =10V, I _B =0			100	μA
Emitter cut-off current	I _{EBO}	V _{EB} =5V, I _C =0			0.1	μA
DC current gain	h _{FE(1)}	V _{CE} =2V, I _C =100mA	90			
De current gam	h _{FE(2)}	V _{CE} =10V, I _C =2mA	160		460	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =100mA, I _B =10mA			0.3	V
Transition frequency	f _T	V _{CE} =10V,I _C =2mA,f=200MHz		150		MHz
Collector output capacitance	Cob	VcB=10V,IE=0,f=1MHz		3.5		pF

CLASSIFICATION of h_{FE(2)}

Rank	Q	R	S
Range	160-260	210-340	290-460
Marking	ZQ	ZR	zs



