

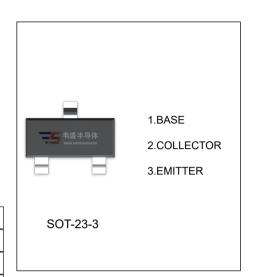
2SD596 TRANSISTOR (NPN)

FEATURES

- High DC Current gain.
- Complimentary to 2SB624

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

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	30	V
V _{CEO}	Collector-Emitter Voltage	25	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current	700	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 (Ta=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =100μΑ, I _E =0	30			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C = 1mA, I _B =0	25			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E = 100μΑ, I _C =0	5			V
Collector cut-off current	I _{CBO}	V _{CB} =30V , I _E =0			0.1	μΑ
Emitter cut-off current	I _{EBO}	V _{EB} = 5V , I _C =0			0.1	μΑ
DC current gain	h _{FE(1)} *	V _{CE} = 1V, I _C = 100mA	110		400	
DC current gain	h _{FE(2)} *	V _{CE} =1V, I _C = 700mA	50			
Collector-emitter saturation voltage	V _{CE(sat)} *	I _C =700mA, I _B =70mA			0.6	V
Base-emitter voltage	V _{BE} *	V _{CE} =6V, I _C =10mA	0.6		0.7	V
Transition frequency	f _T	V _{CE} =6V, I _C = 10mA	170			MHz
Collector Output Capacitance	Соь	VCB=6V,IE=0,f=10MHZ		12		pF

^{*} Pulse test : Pulse width ≤350µs, Duty Cycle≤2%.

CLASSIFICATION OF hfe(1)

Marking	DV1	DV2	DV3	DV4	DV5
Range	110-180	135-220	170-270	200-320	250-400



