

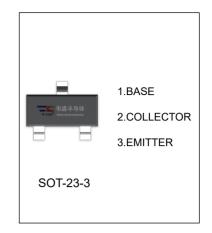
2SD602 TRANSISTOR (NPN)

FEATURES

- Low Collector to Emitter Saturation Voltage
- Mini Type Package

MAXIMUM RATINGS (T_a=25℃ 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	500	mA
Pc	Collector Power Dissipation	200	mW
Roja	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°C unless otherwise specified)

Parameter	Symbol	ool Test conditions		Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =10μA, I _E =0	30			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =10mA, I _B =0	25			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =10μA, I _C =0	5			V
Collector cut-off current	I _{CBO}	V _{CB} =20V, I _E =0			0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =5V, I _C =0			0.1	μA
DC current gain	h _{FE(1)} *	V _{CE} =10V, I _C =0.15A	85		340	
Bo current gam	h _{FE(2)} *	V _{CE} =10V, I _C =0.5A	40			
Collector-emitter saturation voltage	V _{CE(sat)} *	I _C =0.3A, I _B =0.03A			0.6	V
Transition frequency	f⊤	V _{CE} =10V,I _C =0.05A, f=200MHz		200		MHz
Collector output capacitance	C _{ob}	V _{CB} =10V, I _E =0, f=1MHz			15	pF

^{*}Pulse test: pulse width ≤350µs, duty cycle≤ 2.0%.

CLASSIFICATION OF h_{FF(1)}

RANK	Q	R	S	
RANGE	85 - 170	120 - 240	170 - 340	
MARKING	WQ1	WR1	WS1	