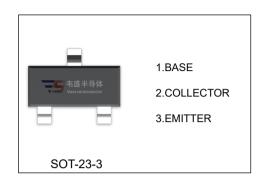


2SD1306 TRANSISTOR (NPN)

ApplicationLow

frequency amplifier, Muting



MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit	
Vсво	Collector -Base Voltage	30	V	
VCEO	Collector-Emitter Voltage	15	V	
VEBO	Emitter-Base Voltage	5	V	
lc	Continuous Collector Current	0.7	А	
Pc	Collector Dissipation	0.15	W	
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	833	°C/ W	
T _J ,T _{stg}	Junction Temperature	-55~+150	°C	

ELECTRICAL CHARACTERISTICS (T_a=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =10uA,I _E =0	30			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =1mA,I _B =0	15			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =10uA, I _C =0	5			V
Collector cut-off current	I _{CBO}	V _{CB} =20V,I _E =0			1	uA
Emitter cut-off current	I _{EBO}	V _{EB} =4V,I _C =0			1	uA
DC current gain	h _{FE} *	V _{CE} =1V,I _C =150mA	250		800	
Collector-emitter saturation voltage	V _{CE(sat)} *	I _C =500mA,I _B =50mA			0.5	V
Base-emitter voltage	V _{BE} *	V _{CE} =1V,I _C =150mA			1	V
Transition frequency	f _T *	V _{CE} =1V,f=150MHz		250		MHz

^{*} Pulse test: Pulse Width ≤300µs, Duty Cycle≤ 2.0%.

CLASSIFICATION of h_{FF}

Rank	D	E
Range	250-500	400-800
Marking	ND	NE