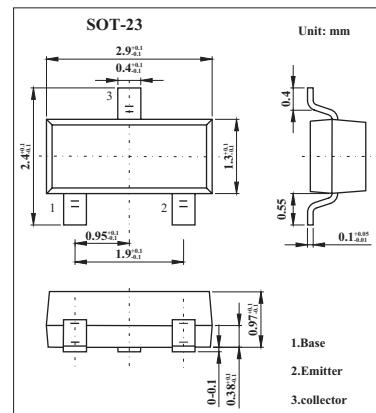


NPN Epitaxial Planar Silicon Transistor

2SC3661

■ Features

- Low frequency general-purpose amplifiers, drivers, muting circuit.
- Adoption of FBET process.
- High DC current gain ($h_{FE}=800$ to 3200).
- Low collector-to-emitter saturation voltage ($V_{CE(sat)} \leq 0.5V$).
- High V_{EBO} ($V_{EBO} \geq 15V$).



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector-base voltage	V _{CBO}	30	V
Collector-emitter voltage	V _{C EO}	25	V
Emitter-base voltage	V _{EBO}	15	V
Collector current	I _C	300	mA
Collector current (pulse)	I _{CP}	500	mA
Collector dissipation	P _C	200	mW
Junction temperature	T _j	125	°C
Storage temperature	T _{stg}	-55 to +125	°C

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector cutoff current	I _{CBO}	V _{CB} = 20V, I _E =0			0.1	µA
Emitter cutoff current	I _{EBO}	V _{EB} = 10V, I _C =0			0.1	µA
DC current gain	h _{FE}	V _{CE} =5V , I _C = 10mA	800	1500	3200	
Gain bandwidth product	f _T	V _{CE} = 10V , I _C = 10mA		250		MHz
Output capacitance	C _{ob}	V _{CB} = 10V , f = 1.0MHz		2.7		pF
Collector-emitter saturation voltage	V _{CE(sat)}	I _C = 200mA , I _B = 4mA		0.12	0.5	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C = 200mA , I _B = 4mA		0.85	1.2	V
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = 10µA , 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 = 10µA , I _C = 0	15			V

■ Marking

Marking	FY
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