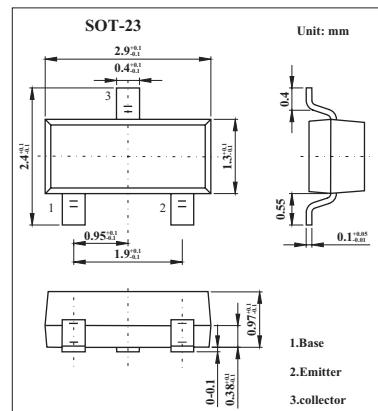


Silicon NPN Epitaxial

2SC2776

■ Features

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■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector-base voltage	V _{CBO}	30	V
Collector-emitter voltage	V _{CEO}	20	V
Emitter-base voltage	V _{EBO}	4	V
Collector current	I _C	30	mA
Collector power dissipation	P _C	100	mW
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditons	Min	Typ	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 = 1mA , R _{BE} = ∞	20			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E = 10µA , I _C = 0	4			V
Collector cutoff current	I _{CBO}	V _{CB} = 10V, I _C = 0			0.5	µA
DC current transfer ratio	h _{FE}	V _{CE} = 6 V, I _C = 1 mA	35		200	
Collector to emitter saturation voltage	V _{CE(sat)}	I _C = 10 mA, I _B = 1 mA		0.8	1.2	V
Collector output capacitance	C _{ob}	V _{CB} = 10 V, I _E = 0, f = 1 MHz		1.1		pF
Gain bandwidth product	f _T	V _{CE} = 6 V, I _C = 1 MA		320		MHz
Noise figure	NF	V _{CE} = 6 V, I _C = 1 mA, f = 100 MHz, R _g = 50 Ω		5.5		dB
Power gain	PG	V _{CE} = 6 V, I _C = 1 mA, f = 100 MHz, R _g = 100Ω, R _L = 550Ω		17		dB

■ hFE Classification

Marking	VA	VB	VC
Rank	A	B	C
hFE	35~70	60~120	100~200