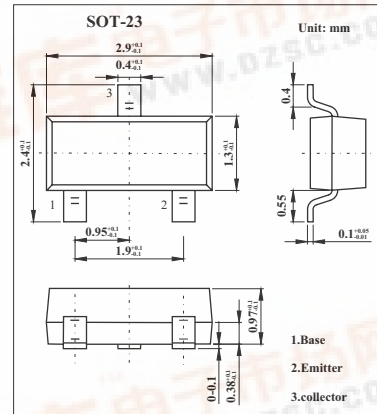


SMD Type Transistors

NPN Epitaxial Planar Silicon Transistors
2SC4983

■ Features

- AF power amplifier, medium-speed switching, small-sized motor drivers and LED drivers.
- Large current capacity.
- Low collector-to-emitter saturation voltage.



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector-base voltage	V _{CB0}	15	V
Collector-emitter voltage	V _{CE0}	15	V
Emitter-base voltage	V _{EB0}	5	V
Collector current	I _C	1	A
Collector current (pulse)	I _{CP}	3	A
Base current	I _B	200	mA
Collector dissipation	P _C	250	mW
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Collector cutoff current	I _{CBO}	V _{CB} = 12V, I _E = 0			100	nA
Emitter cutoff current	I _{EBO}	V _{EB} = 4V, I _C = 0			100	nA
DC current Gain	h _{FE}	V _{CE} = 2V, I _C = 50mA	135		600	
Gain bandwidth product	f _T	V _{CE} = 2V, I _C = 50mA		200		MHz
Common base output capacitance	C _{ob}	V _{CB} = 10V, f = 1MHz		10		pF
Collector-to-emitter saturation voltage	V _{CE(sat)}	I _C = 5mA, I _B = 0.5mA		10	25	mV
		I _C = 500mA, I _B = 25mA		120	240	mV
Base-to-emitter saturation voltage	V _{BE(sat)}	I _C = 500mA, I _B = 25mA		0.9	1.2	V
Collector-to-base breakdown voltage	V _{(BR)CBO}	I _C = -10μA, I _E = 0	15			V
Collector-to-emitter breakdown voltage	V _{(BR)CEO}	I _C = -1mA, R _{BE} = ∞	15			V
Emitter-to-base breakdown voltage	V _{(BR)EBO}	I _E = -10μA, I _C = 0	5			V

■ hFE Classification

Marking	KN		
Bank	5	6	7
hFE	135~270	200~400	300~600

