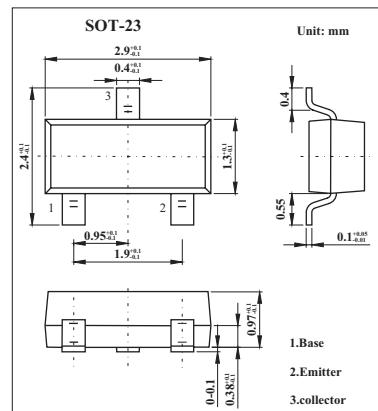


PNP Epitaxial Planar Silicon Transistors

2SA1839

■ Features

- Very small-sized package permitting 2SA1839-applied sets to be made small and slim
- Small output capacitance.
- Low collector-to-emitter saturation voltage
- Low ON resistance



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector-base voltage	V _{CBO}	-15	V
Collector-emitter voltage	V _{CEO}	-10	V
Emitter-base voltage	V _{EBO}	-5	V
Collector current	I _C	-100	mA
Collector current (pulse)	I _{CP}	-200	mA
Base current	I _B	-20	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	Testconditons	Min	Typ	Max	Unit
Collector cutoff current	I _{CBO}	V _{CB} = -12V , I _E = 0			-0.1	µA
Emitter cutoff current	I _{EBO}	V _{EB} = -4V , I _C = 0			-0.1	µA
DC current Gain	h _{FE}	V _{CE} = -2V , I _C = -5mA	200		600	
Gain bandwidth product	f _T	V _{CE} = -5V , I _C = -10mA		600		MHz
Common base output capacitance	C _{OB}	V _{CB} = -10V , f = 1MHz		0.9		pF
Collector-to-emitter saturation voltage	V _{C(E)SAT}	I _C = -10mA , I _B = -1mA		-0.04	-0.15	mV
Base-to-emitter saturation voltage	V _{BE(SAT)}	I _C = -10mA , I _B = -1mA		-0.82	-1.1	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} = ∞	-10			V
Emitter-to-base breakdown voltage	V _{(BR)EBO}	I _E = -10µA , I _C = 0	-15			V
ON Resistance	R _{on}	I _B =-3mA,f=1MHz		3.0		Ω

■ Marking

Marking	LS
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