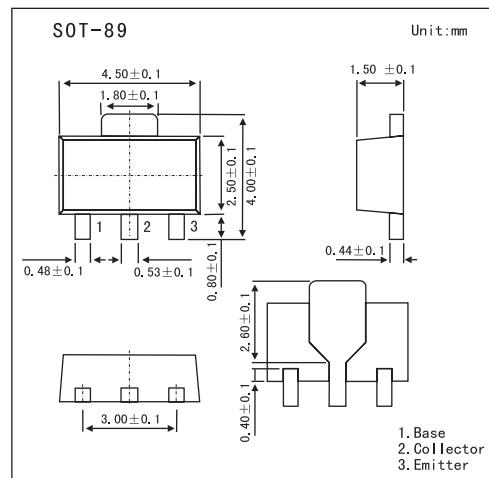


High-Voltage Switching Transistor

2SA1759

■ Features

- High breakdown voltage
- Low saturation voltage
- High switching speed



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector-emitter Voltage	V _{C EO}	-400	V
Collector-base Voltage	V _{C BO}	-400	V
Emitter-base Voltage	V _{E BO}	-7	V
Collector current	I _C	-0.1	A
Collector current (pulse) *1	I _{CP}	-0.2	A
Collector power dissipation	P _C	0.5 2 *2	W
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

* Pw=100ms

*2 When mounted on a 40X40X0.7 mm ceramic board

2SA1759

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector-emitter breakdown voltage	BVCEO	Ic = -1mA	-400			V
Collector-base breakdown voltage	BVCBO	Ic = -50 µ A	-400			V
Emitter-base breakdown voltage	BVEBO	IE = -50 µ A	-7			V
Collector cutoff current	ICBO	VCB = -400V			-10	µA
Emitter cutoff current	IEBO	VEB = -6V			-10	µA
Collector-emitter saturation voltage	VCE(sat)	IC = -20mA , IB = -2mA		-0.2	-0.5	V
Base-emitter saturation voltage	VBE(sat)	IC = -20mA , IB = -2mA			-1.2	V
DC current transfer ratio	hFE	VCE = -10V , IC = -10mA	82		180	
Transition frequency	fT	VCE = -10V , IE = 10mA , f = 5MHz	200			MHz
Output Capacitance	Cob	VCB = -10V , IE = 0A , f = 1MHz	36			pF
Turn-on time	ton	IC = -100mA , RL = 1.5KΩ		0.7		µs
Storage time	tstg	IB1 = -IB2 = -10mA		1.8		µs
Fall time	toff	VCC=-150V		1		µs

■ Marking

Marking	AHP
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