

Silicon PNP SMD triode

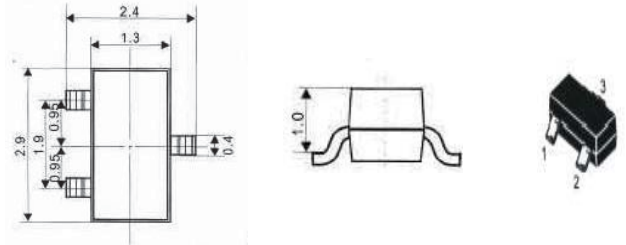
1: base 2: emitter 3: collector

encapsulation mode: SOT-23

Classification of hFE (1)

Rank	L	H
Range	100-200	200-300
Marking	2A	

Outline example



Maximum ratings(Ta=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Collector-Base Breakdown Voltage	VCBO	-40	V
Collector-Emitter Breakdown Voltage	VCEO	-40	V
Emitter-Base Breakdown Voltage	VEBO	-6	V
Collector Current	IC	-200	mA
Collector Power Dissipation	Pc	225	mW
Junction Temperature	TJ	150	°C
Storage Temperature	Tstg	-65~150	°C

Electrical Characteristics (Ta=25°C unless otherwise noted)

Parameter	Symbol	Test Condition	Min	Max	Unit
Collector-Base Breakdown Voltage	VCBO	IC=-100uA IE=0	-40		V
Collector-Emitter Breakdown Voltage	VCEO	IC=-1mA IB=0	-40		V
Emitter-Base Breakdown Voltage	VEBO	IE=-100uA IC=0	-6		V
Collector Cutoff Current	ICBO	VCB=-40V IE=0		-100	nA
Collector Cutoff Current	ICEX	VCB=-30V VEB(off)=-3V		-50	nA
Emitter Cutoff Current	IEBO	VCE=-5V IB=0		-100	nA
DC Current Gain	HFE(1)	VCE=-1V IC=-10mA	100	300	
	HFE(2)	VCE=-1V IC=-50mA	60	300	
	HFE(3)	VCE=-1V IC=-100mA	30		
Collector-Emitter Saturation Voltage	VCE(sat)	IC=-10mA IB=-1mA		-0.2	V
		IC=-50mA IB=-5mA		-0.2	V
Collector-Base Saturation Voltage	VBE(sat)	IC=-10mA IB=-1mA		-0.85	V
		IC=-50mA IB=-5mA		-0.95	V
transition frequency	fT	VCE=-20V IC=-10mA f=100MHz	250		MHz

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