

Silicon PNP SMD triode

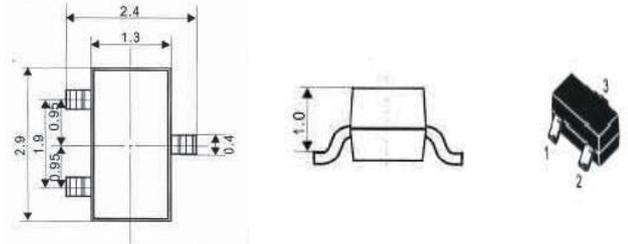
1: base 2: emitter 3: collector

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

DISCLAIMER NOTICE

Rectron Inc reserves the right to make changes without notice to any product specification herein, to make corrections, modifications, enhancements or other changes. Rectron Inc or anyone on its behalf assumes no responsibility or liability for any errors or inaccuracies. Data sheet specifications and its information contained are intended to provide a product description only. "Typical" parameters which may be included on RECTRON data sheets and/ or specifications can and do vary in different applications and actual performance may vary over time. Rectron Inc does not assume any liability arising out of the application or use of any product or circuit.

Rectron products are not designed, intended or authorized for use in medical, life-saving implant or other applications intended for life-sustaining or other related applications where a failure or malfunction of component or circuitry may directly or indirectly cause injury or threaten a life without expressed written approval of Rectron Inc. Customers using or selling Rectron components for use in such applications do so at their own risk and shall agree to fully indemnify Rectron Inc and its subsidiaries harmless against all claims, damages and expenditures.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Rectron:](#)

[MMBT3906](#)