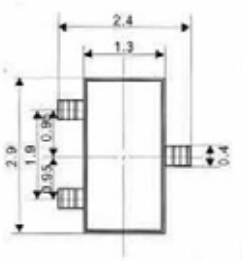
RECTRON SEMICONDUCTOR
TECHNICAL SPECIFICATION

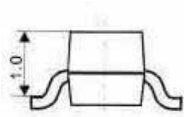
SS8550

Silicon PNP SMD triode

1：base 2：emitter 3：collector

Ouline example SOT-23





Small and medium-sized power amplifier ,

medium power drive and switching applications

P/N suffix V means AEC-Q101 qualified, e.g:SS8550V

P/N suffix V means Halogen-free

HFE(1) :Classification

Rank	L	H	J
Range	120-200	200-350	300-400
Marking	Y2		

Maximum ratings(Ta=25℃ unless otherwise noted)

Parameter	Symbol	Value	Unit
Collector-Base Breakdown Voltage	V_{CBO}	-40	V
Collector-Emitter Breakdown Voltage	V_{CEO}	-25	V
Emitter-Base Breakdown Voltage	V_{EBO}	-5	V
Collector Current	I_C	-1.5	A
Collector Power Dissipation	P_C	300	mW
Junction Temperature	T_J	150	℃
Storage Temperature	Tstg	−65～150	℃

Electrical Characteristics (Ta=25℃ unless otherwise noted)

Parameter	Symbol	Test Condition	Min	Max	Unit
Collector-Base Breakdown Voltage	V_{CBO}	IC=-100uA IE=0	-40		V
Collector-Emitter Breakdown Voltage	V_{CEO}	IC=-1mA IB=0	-25		V
Emitter-Base Breakdown Voltage	V_{EBO}	IE=-100uA IC=0	-5		V
Collector Cutoff Current	I_{CBO}	VCB=-40V IE=0		-100	nA
Emitter Cutoff Current	I_{EBO}	VCE=-5V IB=0		-100	nA
DC Current Gain	$H_{FE(1)}$	VCE=-1V IC=-100mA	120	400	
	$H_{FE(2)}$	VCE=-1V IC=-800mA	40		
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	IC=-800mA IB=-80mA		-0.5	V
Collector-Base Saturation Voltage	$V_{BE(sat)}$	IC=-800mA IB=-80mA		-1.2	V
transition frequency	f_T	VCE=-10V IC=50mA f=30MHz	100		MHz

PACKAGING OF DIODE

REEL PACK

PACKAGE	PACKING CODE	REEL (EA)	COMPONENT SPACE(mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
SOT-23/-3L	-T	3,000	---	---	178	440*440*240	180,000	8.0

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.