

Silicon NPN SMD triode

1: base 2: emitter 3: collector

Small and medium-sized power amplifier ,

medium power drive and switching applications

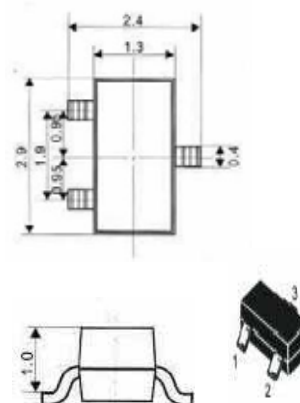
P/N suffix V means AEC-Q101 qualified, e.g:SS8050V

P/N suffix V means Halogen-free

HFE(1) :Classification

Rank	L	H	J
Range	120-200	200-350	300-400
Marking	Y1		

Outline example SOT-23



Maximum ratings(Ta=25℃ unless otherwise noted)

Parameter	Symbol	Value	Unit
Collector-Base Breakdown Voltage	VCBO	40	V
Collector-Emitter Breakdown Voltage	VCEO	25	V
Emitter-Base Breakdown Voltage	VEBO	5	V
Collector Current	IC	1.5	A
Collector Power Dissipation	Pc	300	mW
Junction Temperature	TJ	150	℃
Storage Temperature	Tstg	-65~150	℃

Electrical Characteristics (Ta=25℃ 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	25		V
Emitter-Base Breakdown Voltage	VEBO	IE=100uA IC=0	5		V
Collector Cutoff Current	ICBO	VCB=40V IE=0		100	nA
Collector Cutoff Current	ICEO	VCE=20V IB=0		100	nA
Emitter Cutoff Current	IEBO	VCE=5V IC=0		100	nA
DC Current Gain	HFE(1)	VCE=1V IC=100mA	120	400	
	HFE(2)	VCE=1V IC=800mA	50		
Collector-Emitter Saturation Voltage	VCE(sat)	IC=800mA IB=80mA		0.5	V
Collector-Base Saturation Voltage	VBE(sat)	IC=800mA IB=80mA		1.2	V
transition frequency	fr	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

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