

Outline example

Silicon PNP SMD triode

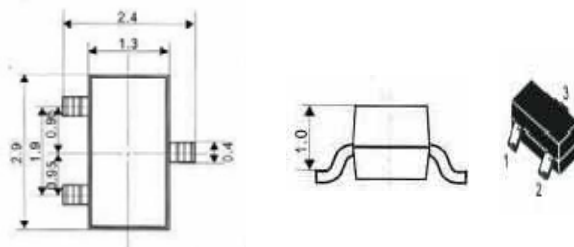
1: base 2: emitter 3: collector

encapsulation mode: SOT-23

P/N suffix V means AEC-Q101 qualified, e.g:MMBT5401V

P/N suffix V means Halogen-free

High voltage switching transistor



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

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

Parameter	Symbol	Value	Unit
Collector-Base Breakdown Voltage	VCBO	-160	V
Collector-Emitter Breakdown Voltage	VCEO	-150	V
Emitter-Base Breakdown Voltage	VEBO	-5	V
Collector Current	IC	-600	mA
Collector Power Dissipation	Pc	300	mW
Junction Temperature	TJ	-65~150	°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	-160		V
Collector-Emitter Breakdown Voltage	VCEO	IC=-1mA IB=0	-150		V
Emitter-Base Breakdown Voltage	VEBO	IE=-100uA IC=0	-5		V
Collector Cutoff Current	ICBO	VCB=-120V IE=0		-0.1	nA
Emitter Cutoff Current	IEBO	VCE=-4V IB=0		-0.1	nA
DC Current Gain	HFE(1)	VCE=-5V IC=-1mA	80		
	HFE(2)	VCE=-5V IC=-10mA	100	300	
	HFE(3)	VCE=-5V IC=-50mA	50		
Collector-Emitter Saturation Voltage	VCE(sat)	IC=-10mA IB=-1mA		-0.2	V
		IC=-50mA IB=-5mA		-0.5	V
Collector-Base Saturation Voltage	VBE(sat)	IC=-10mA IB=-1mA		-1	V
		IC=-50mA IB=-5mA		-1	V
transition frequency	fr	VCE=-5V IC=-10mA 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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