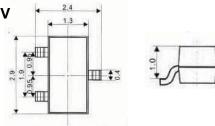


## Silicon NPN SMD triode

1: base 2: emitter 3: collector encapsulation mode: SOT-23 Small and medium-sized power amplifier P/N suffix V means AEC-Q101 qualified, e.g:MMBT4401V P/N suffix V means Halogen-free

Туре	Marking	
MMBT4401	2X	





## Maximum ratings(Ta=25℃ unless otherwise noted)

Parameter	Symbol	Value	Unit
Collector-Base Breakdown Voltage	Vсво	60	v
Collector-Emitter Breakdown Voltage	VCEO	40	V
Emitter-Base Breakdown Voltage	Vebo	6	v
Collector Current	Ic	100	mA
Collector Power Dissipation	Рс	200	mW
Junction Temperatuye	TJ	150	Ĉ
Storage Temperatuye	Tstg	$-65 \sim 150$	Ċ

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

Parameter	Symbol	Test Condition Min		Max	Unit
Collector-Base Breakdown Voltage	Vсво	IC=100uA IE=0	60		v
Collector-Emitter Breakdown Voltage	VCEO	IC=1mA IB=0	40		v
Emitter-Base Breakdown Voltage	Vево	IE=100uA IC=0	6		v
Collector Cutoff Current	Ісво	VCB=40V IE=0		100	nA
Collector Cutoff Current	ICEX	VCB=35V VEB(off) =4V		100	nA
Emitter Cutoff Current	Іево	VCE=5V IB=0		100	nA
DC Current Gain	HFE(1)	VCE=1V IC=10mA	80		
	HFE(2)	VCE=1V IC=150mA	100	300	
	HFE(3)	VCE=2V IC=500mA	40		
Collector-Emitter Saturation Voltage	VCE(sat)	IC=500mA IB=50mA		0.8	v
		IC=150mA IB=15mA		0.4	v
Collector-Base Saturation Voltage	VBE(sat)	IC=500mA IB=50mA		1.2	v
		IC=150mA IB=15mA		1.0	v
transition frequency	fт	VCE=10V IC=20mA f=100MHz	250		MHz

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