

MMST5401 TRANSISTOR (PNP)

FEATURES

Power dissipation

P_{CM} : 0.2 W ($T_{amb}=25^{\circ}C$)

Collector current

I_{CM} : -0.2 A

Collector-base voltage

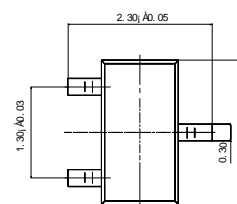
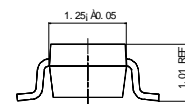
$V_{(BR)CBO}$: -160 V

Operating and storage junction temperature range

T_J, T_{stg} : $-55^{\circ}C$ to $+150^{\circ}C$

SOT-323

1. BASE
2. EMITTER
3. COLLECTOR



Unit: mm

ELECTRICAL CHARACTERISTICS ($T_{amb}=25^{\circ}C$ unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=-100\mu A, I_E=0$	-160			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=-1mA, I_B=0$	-150			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=-10\mu A, I_C=0$	-5			V
Collector cut-off current	I_{CBO}	$V_{CB}=-120V, I_E=0$			-50	nA
Emitter cut-off current	I_{EBO}	$V_{EB}=-3V, I_C=0$			-50	nA
DC current gain	$h_{FE(1)}$	$V_{CE}=-5V, I_C=-1mA$	50			
	$h_{FE(2)}$	$V_{CE}=-5V, I_C=-10mA$	60		240	
	$h_{FE(3)}$	$V_{CE}=-5V, I_C=-50mA$	50			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=-10mA, I_B=-1mA$			-0.2	V
	$V_{CE(sat)}$	$I_C=-50mA, I_B=-5mA$			-0.5	V
Base-emitter voltage	$V_{BE(sat)}$	$I_C=-10mA, I_B=-1mA$			-1	V
	$V_{BE(sat)}$	$I_C=-50mA, I_B=-5mA$			-1	V
Transition frequency	f_T	$V_{CE}=-10V, I_C=-10mA, f=100MHz$	100		300	MHz
Collector output capacitance	C_{ob}	$V_{CB}=-10V, I_E=0, f=1MHz$			6	pF
Noise figure	NF	$V_{CE}=-5V, I_C=-0.2mA, f=1KHz, R_g=10\Omega$			8	dB

Marking	K4M
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