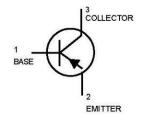
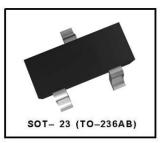




PNP Silicon





MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Collector–Emitter Voltage	V _{CEO}	- 150	Vdc
Collector-Base Voltage	V _{CBO}	- 160	Vdc
Emitter–Base Voltage	V _{EBO}	- 5.0	Vdc
Collector Current — Continuous	Ι _c	- 500	mAdc

THERMAL CHARACTERISTICS

Characteristic	Symbol	Max	Unit
Total Device Dissipation FR- 5 Board (1)	Pp	225	mW
T _A =25 °C			
Derate above 25°C		1.8	mW/°C
Thermal Resistance, Junction to Ambient	R _{RJA}	556	°C/W
Total Device Dissipation	PD	300	m₩
Alumina Substrate, (2) T _A = 25°C			
Derate above 25°C		2.4	mW/°C
Thermal Resistance, Junction to Ambient	R _{RJA}	417	°CW
Junction and Storage Temperature	Τ」, T _{stg}	-55to+150	°C

DEVICE MARKING

MMBT5401=2L

• ELECTRICAL CHARACTERISTICS (T A = 25°C unless otherwise noted)

Characteristic	Symbol	Min	Max	Unit
CHARACTERISTICS				
Collector-Emitter Breakdown Voltage	V (BR)CEO			Vdc
$(I_{c} = -1.0 \text{ mAdc}, I_{B} = 0)$	10070	- 150		
Collector-Base Breakdown Voltage	V (BR)CBO			Vdc
$(I_{c} = -100 \ \mu Adc, I_{E} = 0)$		- 160	1	
Emitter-BAse Breakdown Voltage	V _{(BR)EBO}			Vdc
(I _E = -10μAdc, I _c =0)		-5.0		
Collector Cutoff Current	I _{CES}			
$(V_{CB} = -120 \text{ Vdc}, I_E = 0)$			- 50	nAdd
(V _{CB} = -120 Vdc, I _E = 0, T _A =100 °C)		—	- 50	μAdo

1. FR-5 = 1.0 x 0.75 x 0.062 in.

2. Alumina = 0.4 x 0.3 x 0.024 in. 99.5% alumina.

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Characteristic	Symbol	Min	Max	Unit
N CHARACTERISTICS (2)				
DC Current Gain	h _{FE}			
$(I_c = -1.0 \text{mAdc}, V_{ce} = -5.0 \text{ Vdc})$		50	·	
$(I_c = -10 \text{ mAdc}, V_{ce} = -5.0 \text{ Vdc})$		60	240	
$(I_c = -50 \text{ mAdc}, V_{cE} = -5.0 \text{ Vdc})$		50		
Collector–Emitter Saturation Voltage	$V_{CE(sat)}$			Vdc
$(I_c = -10 \text{ mAdc}, I_B = -1.0 \text{ mAdc})$			- 0.2	
$(I_c = -50 \text{ mAdc}, I_B = -5.0 \text{ mAdc})$			- 0.5	
Base–Emitter Saturation Voltage	$V_{\text{BE(sat)}}$			Vdc
$(I_{c} = -10 \text{ mAdc}, I_{B} = -1.0 \text{ mAdc})$			- 1.0	
$(I_c = -50 \text{ mAdc}, I_B = -5.0 \text{ mAdc})$			- 1.0	
MALL-SIGNAL CHARACTERISTICS				
Current–Gain — Bandwidth Product	f _T			MHz
$(I_c = -10 \text{ mAdc}, V_{ce} = -10 \text{ Vdc}, f = 100 \text{ MHz})$		100	300	
Output Capacitance	C _{obo}			pF
$(V_{CB} = -10 \text{ Vdc}, I_E = 0, f = 1.0 \text{ MHz})$			6.0	
Small–Signal Current Gain	h _{fe}			
$(I_{c} = -1.0 \text{ mAdc}, V_{ce} = -10 \text{ Vdc}, f = 1.0 \text{ kHz})$		40	200	
Noise Figure	NF			dB
(I _c = –200 μAdc, V _{cE} = –5.0 Vdc,R _s =10Ω, f = 1.0 kHz)			8.0	

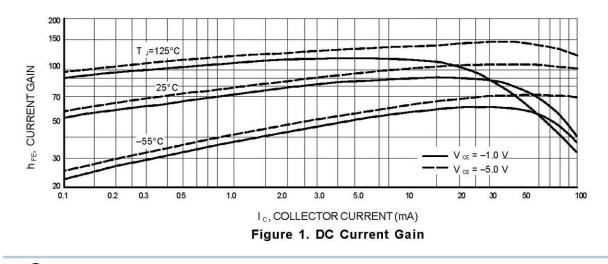
• ELECTRICAL CHARACTERISTICS (T A = 25°C unless otherwise noted) (Continued)

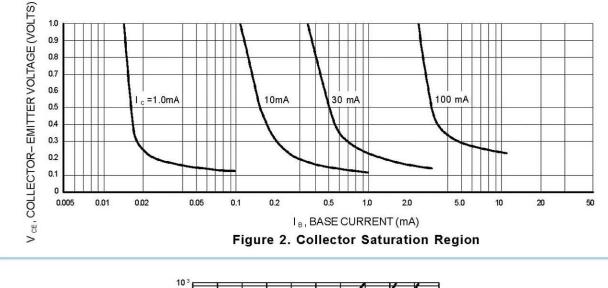
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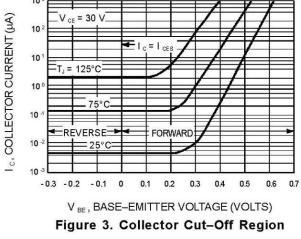










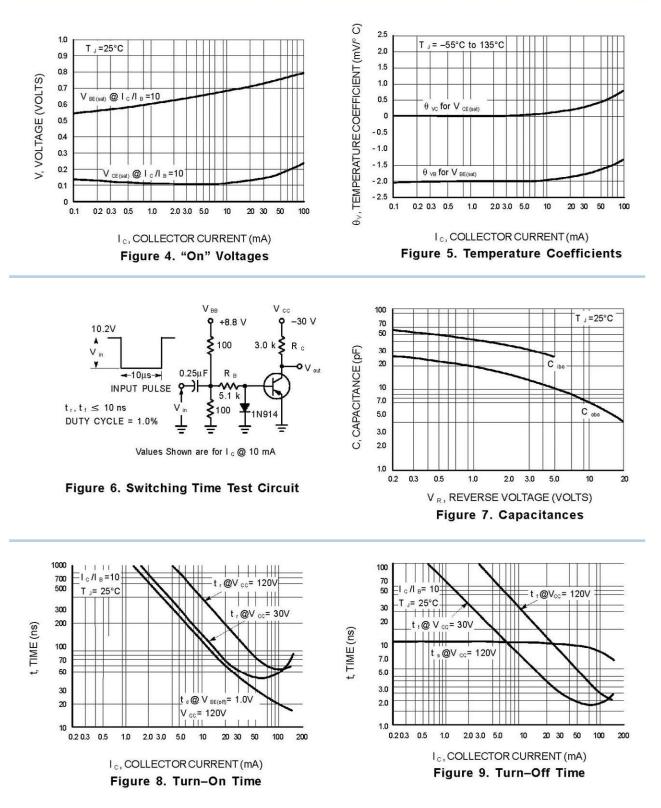


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