

TRANSISTOR (NPN)

FEATURES

Switching transistor

MARKING : MMBT4401=2X

MAXIMUM RATINGS (T_A=25°C unless otherwise noted)

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	40	V
V _{CEO}	Collector-Emitter Voltage	40	V
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current -Continuous	0.6	A
P _C	Collector Power Dissipation	0.3	W
T _j	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55-150	°C



ELECTRICAL CHARACTERISTICS (T_{amb}=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =-100µA , I _E =0	40		V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C = -1mA , I _B =0	40		V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-100µA, I _C =0	5		V
Collector cut-off current	I _{CBO}	V _{CB} =-35V, I _E =0		0.1	µA
Collector cut-off current	I _{CEO}	V _{CE} =-35 V, I _B =0		0.1	µA
Emitter cut-off current	I _{EBO}	V _{EB} =-4V, I _C =0		0.1	µA
DC current gain	h _{FE}	V _{CE} =-2V, I _C = -150mA	100	300	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-150mA, I _B =-15mA		0.4	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =- 150mA, I _B =-15mA		0.95	V
Transition frequency	f _T	V _{CE} = -10V, I _C = -20mA f = 100MHz	250		MHz



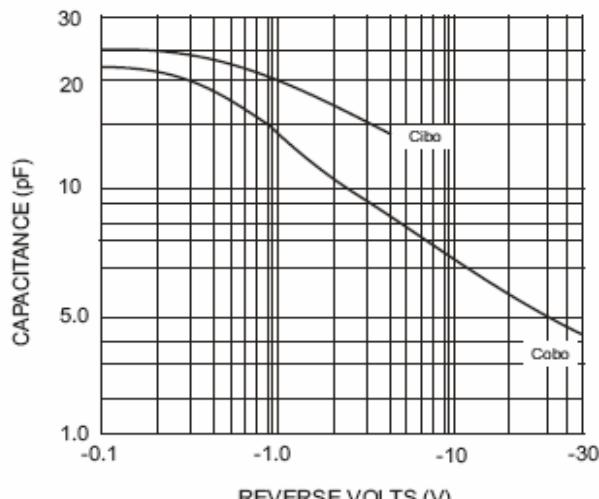


Fig. 1 Typical Capacitance

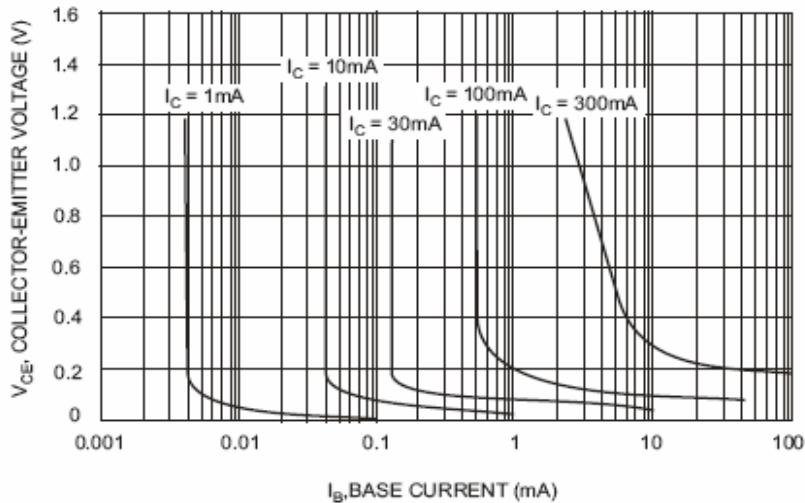


Fig. 2 Typical Collector Saturation Region

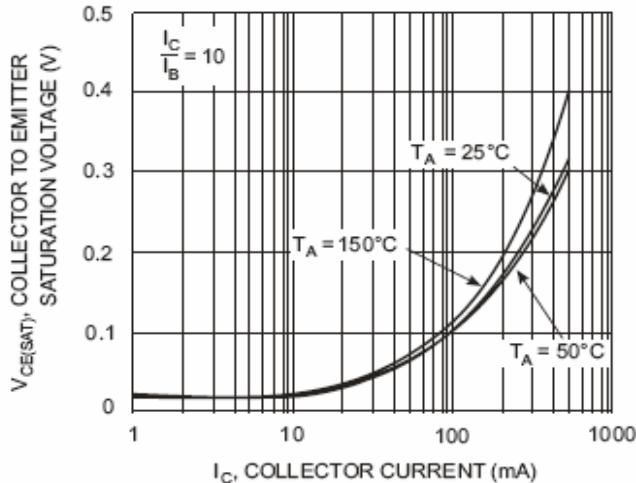


Fig. 3 Collector Emitter Saturation Voltage
vs. Collector Current

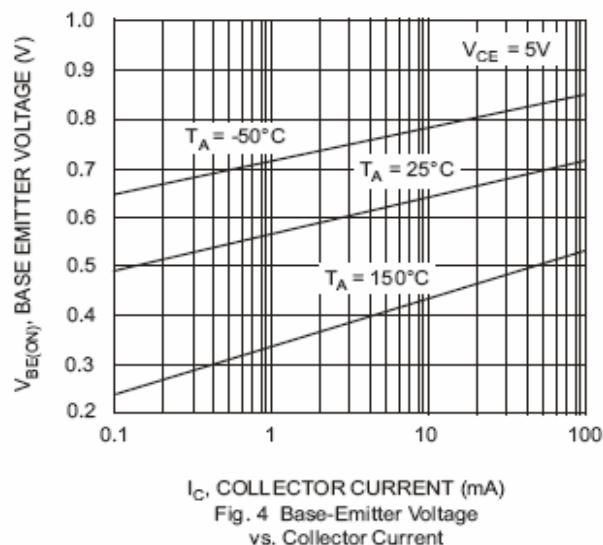


Fig. 4 Base-Emitter Voltage
vs. Collector Current



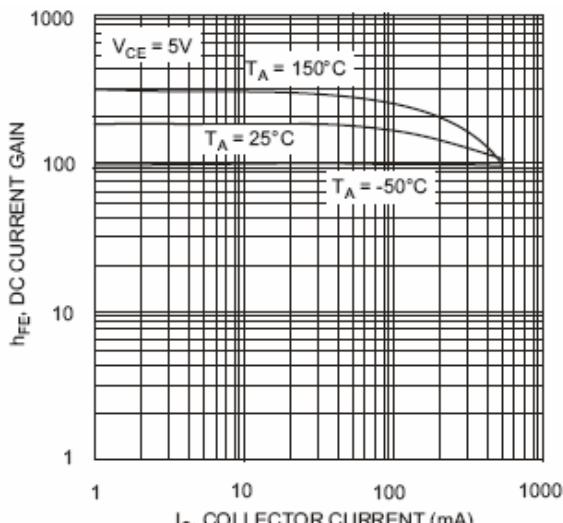


Fig. 5 DC Current Gain vs. Collector Current

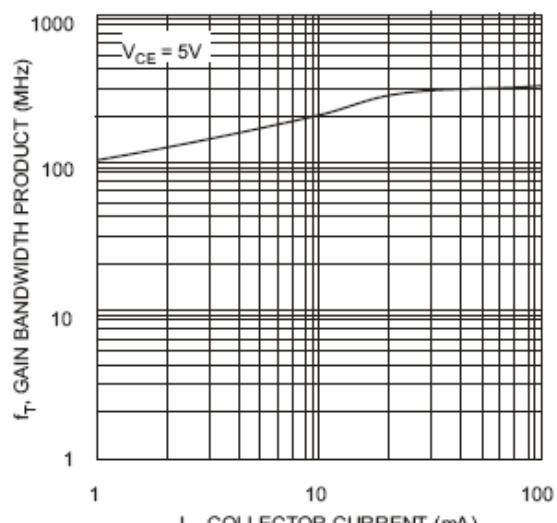


Fig. 6 Gain Bandwidth Product vs. Collector Current

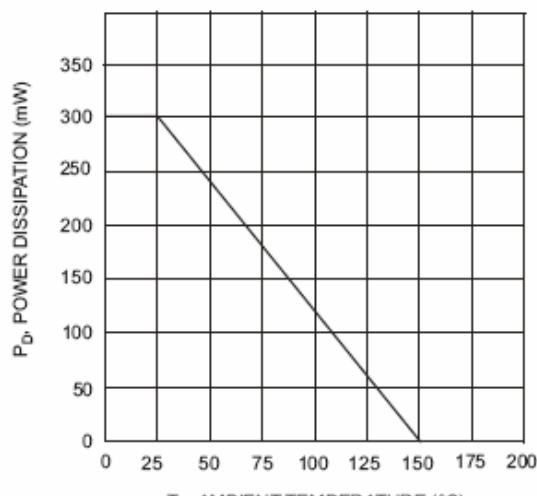


Fig. 7 Max Power Dissipation vs
Ambient Temperature



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