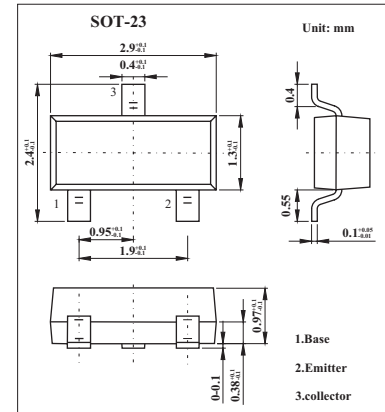


NPN Transistors

KMBT3904(MMBT3904)

■ Features

- Epitaxial planar die construction



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V _{CBO}	60	V
Collector - Emitter Voltage	V _{CEO}	40	V
Emitter - Base Voltage	V _{EBO}	6	V
Collector Current - Continuous	I _C	0.2	A
Collector Power Dissipation	P _C	0.2	W
Junction Temperature	T _J	150	°C
Storage Temperature	T _{stg}	-55 to 150	°C

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Collecto- base breakdown voltage	V _{CBO}	I _C = 100 μA, I _E =0	60			V
Collector- emitter breakdown voltage	V _{CEO}	I _C = 1 mA, I _B =0	40			V
Emitter - base breakdown voltage	V _{EBO}	I _E = 10 μA, I _C =0	6			V
Collector cut-off current	I _{CBO}	V _{CB} = 60 V, I _E =0			0.1	μA
Collector cut-off current	I _{CEO}	V _{CE} = 30 V, V _{BE(off)} =3V			50	nA
Emitter cut-off current	I _{EBO}	V _{EB} = 5 V, I _C =0			0.1	μA
DC current gain	h _{FE}	V _{CE} = 1V, I _C = 10mA	100		400	
		V _{CE} = 1V, I _C = 50mA	60			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =50 mA, I _B = 5mA			0.3	V
Base - emitter saturation voltage	V _{BE(sat)}	I _C = 50 mA, I _B = 5mA			0.95	V
Delay time	t _d	V _{CC} =3.0V, V _{BE} =-0.5V			35	ns
Rise time	t _r	I _C =10mA, I _{B1} =-I _{B2} =1.0mA			35	
Storage time	t _s	V _{CC} =3.0V, I _C =10mA			200	ns
Fall time	t _f	I _{B1} =-I _{B2} =1.0mA			50	
Transition frequency	f _T	V _{CE} = 20V, I _C = 10mA, f=100MHz	250			MHz

■ Marking

Marking	1AM
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KMBT3904(MMBT3904)

■ Typical Characteristics

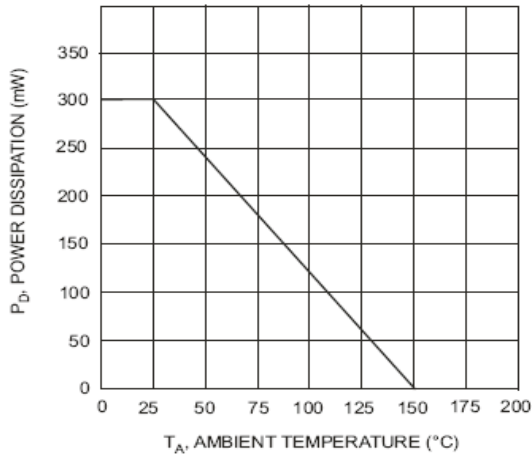


Fig.1 Max Power Dissipation vs Ambient Temperature

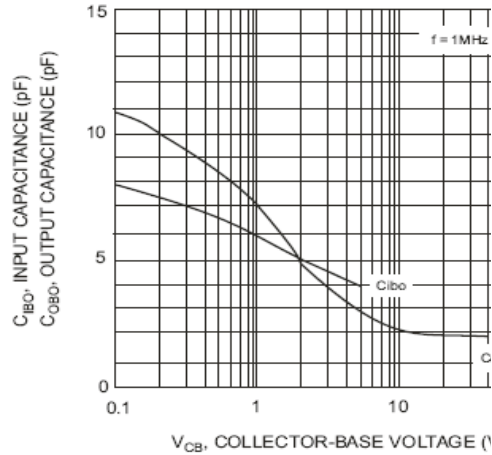


Fig.2 Input and Output Capacitance vs. Collector-Base Voltage

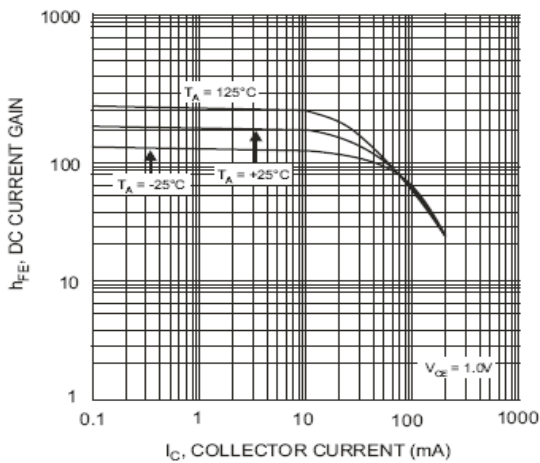


Fig.3 Typical DC Current Gain vs Collector Current

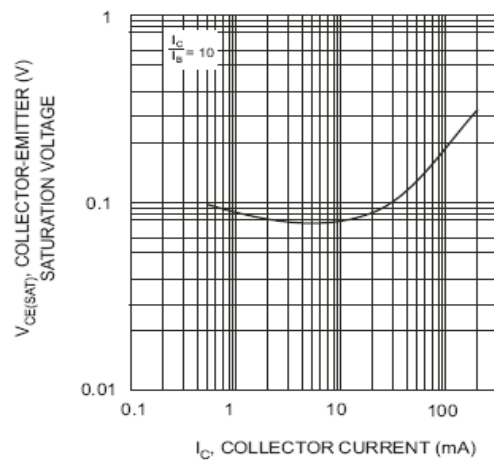


Fig.4 Typical Collector-Emitter Saturation Voltage vs. Collector Current

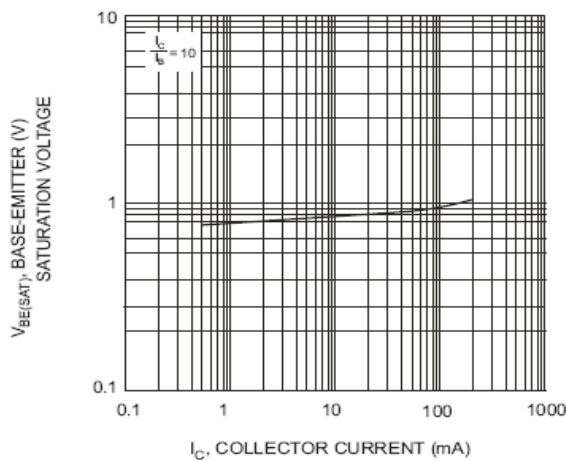


Fig.5 Typical Base-Emitter Saturation Voltage vs. Collector Current

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