

**TRANSISTOR(PNP)****SOT-23**

- 1. BASE
- 2. EMITTER
- 3. COLLECTOR

**FEATURES**

- Complementary to MMBT5551
- Ideal for medium power amplification and switching

MARKING: 2L**MAXIMUM RATINGS (T_A=25°C unless otherwise noted)**

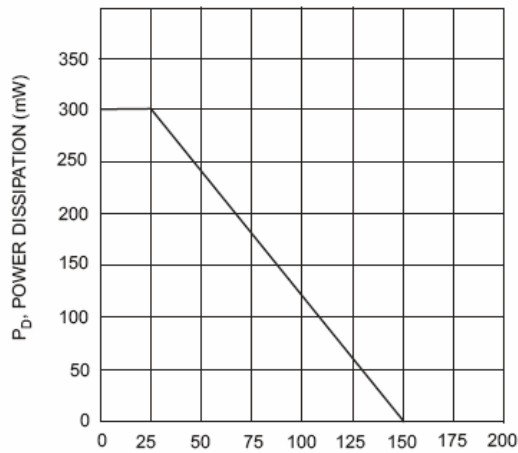
Symbol	Parameter	Value	Units
V _{CB0}	Collector-Base Voltage	-160	V
V _{CEO}	Collector-Emitter Voltage	-150	V
V _{EBO}	Emitter-Base Voltage	-5	V
I _C	Collector Current -Continuous	-0.6	A
P _C	Collector Power Dissipation	0.3	W
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55-150	°C

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

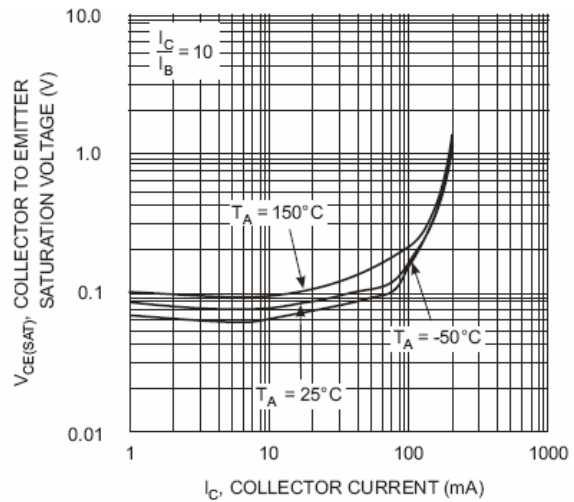
Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = -100μA, I _E =0	-160		V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C = -1mA, I _B =0	-150		V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E = -10μA, I _C =0	-5		V
Collector cut-off current	I _{CBO}	V _{CB} =-120 V, I _E =0		-0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =-4V, I _C =0		-0.1	μA
DC current gain	h _{FE1}	V _{CE} = -5V, I _C = -1mA	80		
	h _{FE2}	V _{CE} = -5V, I _C =-10mA	100	300	
	h _{FE3}	V _{CE} = -5V, I _C =-50mA	50		
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-50 mA, I _B = -5mA		-0.5	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C = -50 mA, I _B = -5mA		-1	V
Transition frequency	f _T	V _{CE} = -5V, I _C = -10mA f=30MHz	100		MHz

CLASSIFICATION OF h_{FE} (2)

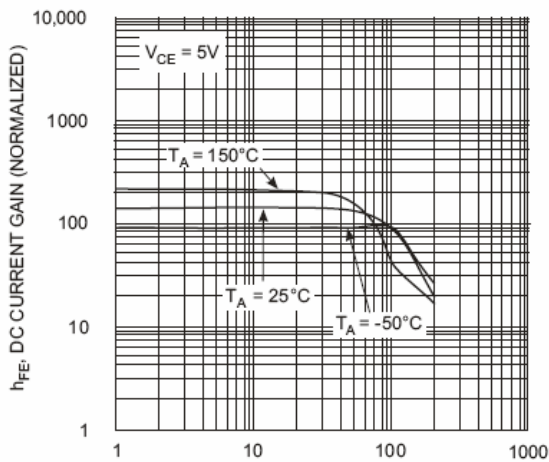
RANK	L	H
RANGE	100-200	200-300



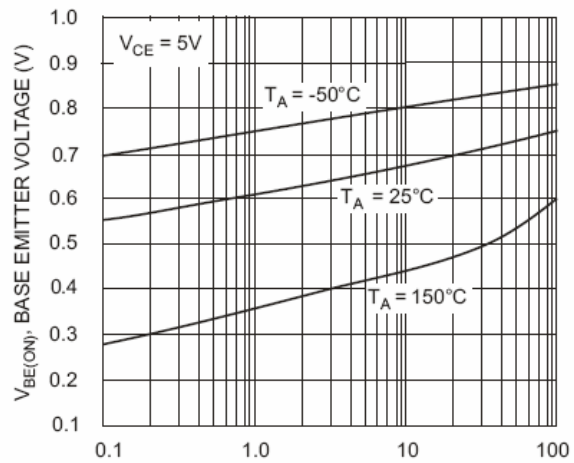
T_A , AMBIENT TEMPERATURE (°C)
Fig. 1, Max Power Dissipation vs Ambient Temperature



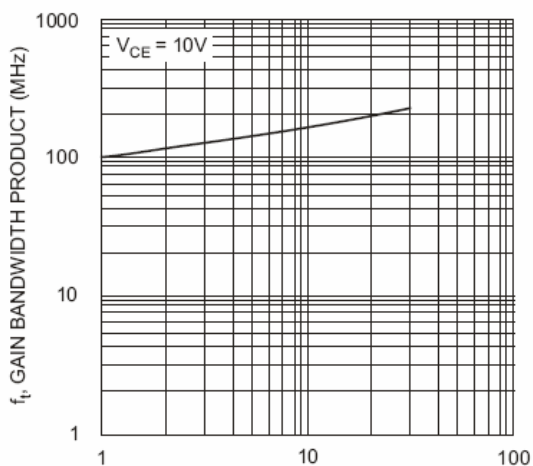
I_C , COLLECTOR CURRENT (mA)
Fig. 2, Collector Emitter Saturation Voltage vs. Collector Current



I_C , COLLECTOR CURRENT (mA)
Fig. 3, DC Current Gain vs. Collector Current



I_C , COLLECTOR CURRENT (mA)
Fig. 4, Base Emitter Voltage vs. Collector Current



I_C , COLLECTOR CURRENT (mA)
Fig. 5, Gain Bandwidth Product vs Collector Current

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