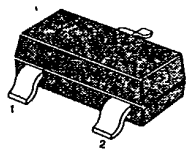
MMBT5086 PNP EPITAXIAL SILICON TRANSISTOR

LOW NOISE TRANSISTOR

SOT-23



1. Base 2. Emitter 3. Collector

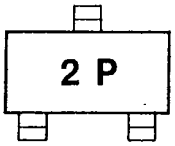
ABSOLUTE MAXIMUM RATINGS (T_a=25°C)

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO}	50	V
Collector-Emitter Voltage	V_{CEO}	50	V
Emitter-Base Voltage	V_{EBO}	3	V
Collector Current	I_C	50	mA
Collector Dissipation	P_C	350	mW
Storage Temperature	Tstg	150	°C

ELECTRICAL CHARACTERISTICS (T_a=25°C)

Characteristic	Symbol	Test Condition	Min	Max	Unit
Collector-Base Breakdown Voltage	BV_{CBO}	I_C=100μA, I_E=0	50		V
Collector-Emitter Breakdown Voltage	BV_{CEO}	I_C=1mA, I_B=0	50		V
Collector Cutoff Current	I_{CBO}	V_{CB}=35V, I_E=0		50	nA
DC Current Gain	h_{FE}	V_{CE}=5V, I_C=100μA	150	500	
		V_{CE}=5V, I_C=1mA	150		
		V_{CE}=5V, I_C=10mA	150		
Collector-Emitter Saturation Voltage	V_{CE} (sat)	I_C=10mA, I_B=1mA		0.3	V
Base-Emitter Saturation Voltage	V_{BE} (sat)	I_C=10mA, I_B=1mA		0.85	V
Current Gain-Bandwidth Product	f_T	I_C=500μA, V_{CE}=5V f=20MHz	40		MHz
Output Capacitance	Cob	V_{CB}=5V, I_E=0 f=100kHz		4	pF
Noise Figure	NF	I_C=100μA, V_{CE}=5V f=1KHz, R_S=3KΩ		3	dB

Marking

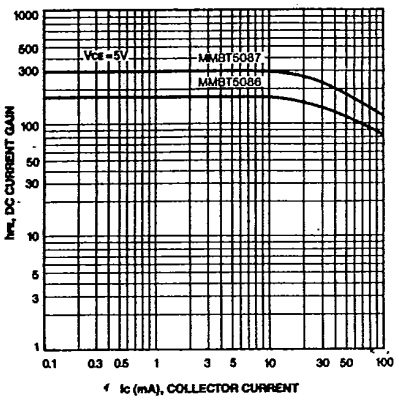


3

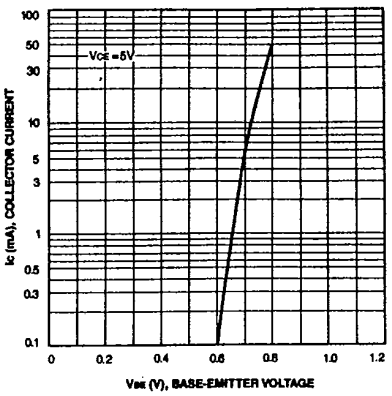
MMBT5086 PNP EPITAXIAL SILICON TRANSISTOR

T-29-19

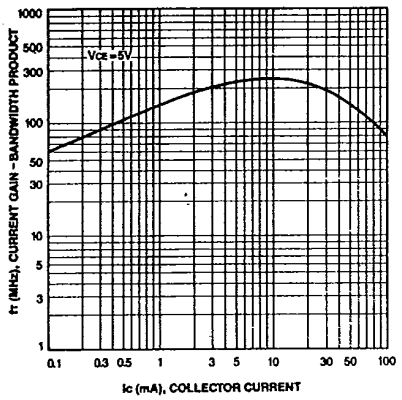
DC CURRENT GAIN



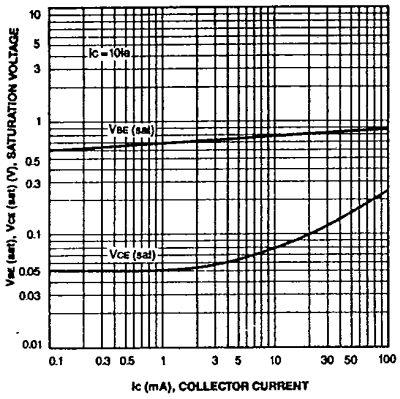
BASE-EMITTER ON VOLTAGE



CURRENT GAIN BANDWIDTH PRODUCT



BASE-EMITTER SATURATION VOLTAGE
COLLECTOR-EMITTER SATURATION VOLTAGE



OUTPUT CAPACITANCE

