TRANSISTOR (NPN)

FEATURES

- High DC Current gain.
- Complimentary to 2SB624

SOT-23

1.BASE
2.EMITTER
3.COLLECTOR

MAXIMUM RATINGS (T_A=25℃ unless otherwise noted)

Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage	30	V
V_{CEO}	Collector-Emitter Voltage	25	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current -Continuous	700	mA
P_C	Collector Power Dissipation	200	mW
T_j	Junction Temperature	150	℃
T_{stg}	Storage Temperature	-55-150	℃

ELECTRICAL CHARACTERISTICS (Tamb=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	I_C=100μA, I_E=0	30			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	I_C= 1mA, I_B=0	25			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	I_E= 100μA, I_C=0	5			V
Collector cut-off current	I_{CBO}	V_{CB}=30V , I_E=0			0.1	μA
Emitter cut-off current	I_{EBO}	V_{EB}= 5V , I_C=0			0.1	μA
DC current gain	$h_{FE(1)}$*	V_{CE}= 1V, I_C= 100mA	110		400	
	$h_{FE(2)}$*	V_{CE}=1V, I_C= 700mA	50			
Collector-emitter saturation voltage	$V_{CE(sat)}$*	I_C=700mA, I_B=70mA			0.6	V
Base-emitter voltage	V_{BE}*	V_{CE}=6V, I_C=10mA	0.6		0.7	V
Transition frequency	f_T	V_{CE}=6V, I_C= 10mA	170			MHz
Collector Output Capacitance	Cob	VCB=6V,IE=0,f=10MHz		12		pF

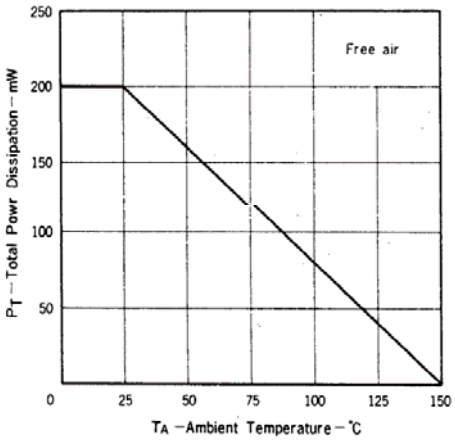
* Pulse test : Pulse width ≤350μs,Duty Cycle≤2%.

CLASSIFICATION OF $h_{FE(1)}$

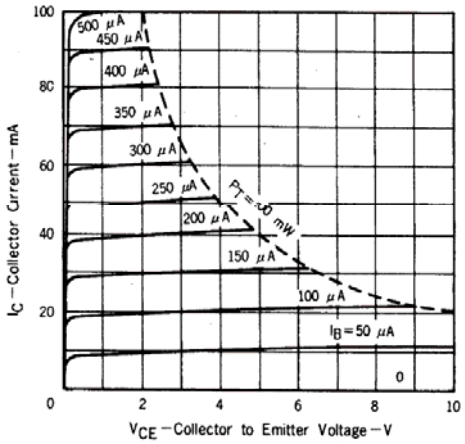
Marking	DV1	DV2	DV3	DV4	DV5
Range	110-180	135-220	170-270	200-320	250-400

Typical Characteristics

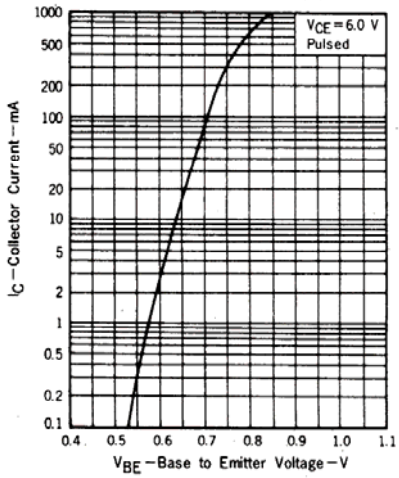
TOTAL POWER DISSIPATION vs. AMBIENT TEMPERATURE



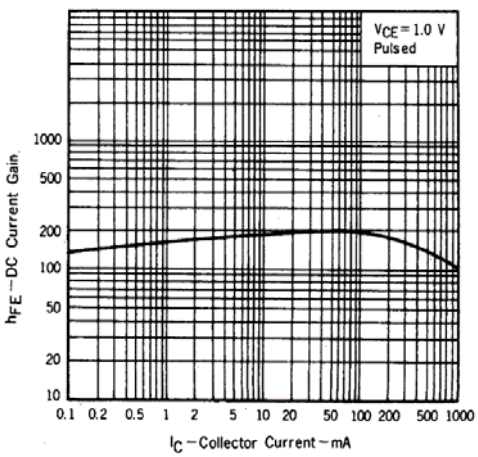
COLLECTOR CURRENT vs. COLLECTOR TO EMITTER VOLTAGE



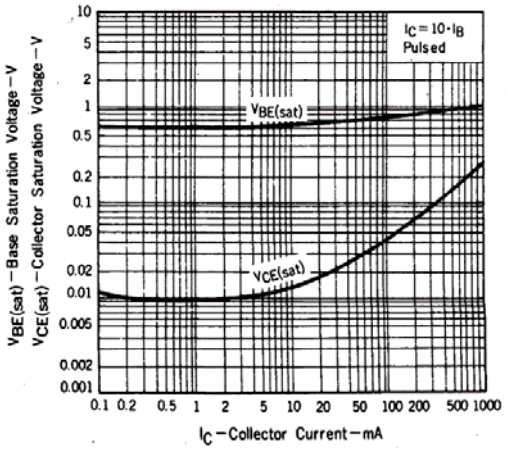
COLLECTOR CURRENT vs. BASE TO EMITTER VOLTAGE



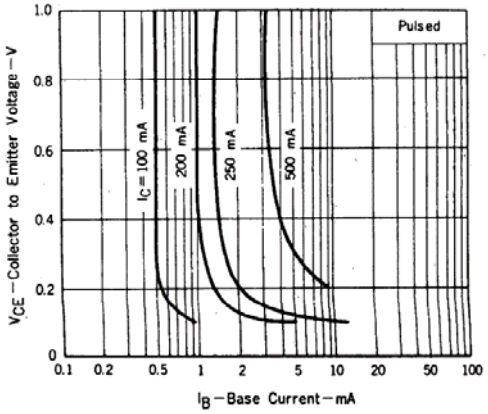
DC CURRENT GAIN vs. COLLECTOR CURRENT



COLLECTOR AND BASE SATURATION VOLTAGE vs. COLLECTOR CURRENT

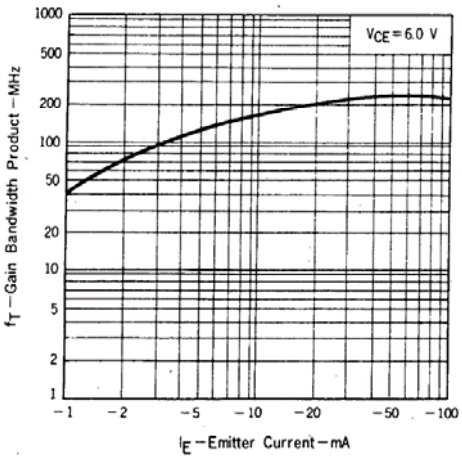


COLLECTOR TO EMITTER VOLTAGE vs. BASE CURRENT

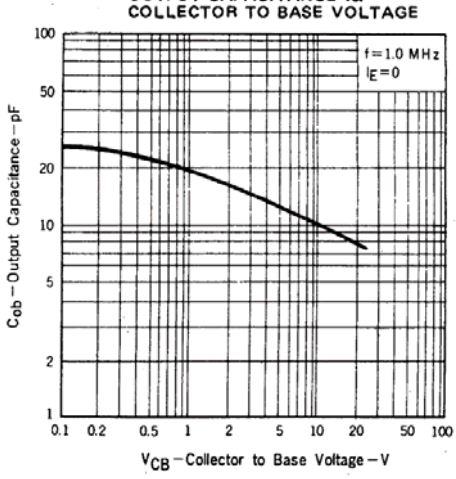


Typical Characteristics

GAIN BANDWIDTH PRODUCT vs. EMITTER CURRENT



OUTPUT CAPACITANCE vs. COLLECTOR TO BASE VOLTAGE



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