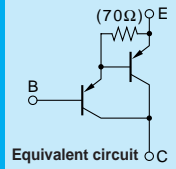


Darlington

2SB1587



Silicon PNP Epitaxial Planar Transistor (Complement to type 2SD2438)

Application : Audio, Series Regulator and General Purpose

■ Absolute maximum ratings (Ta=25°C)

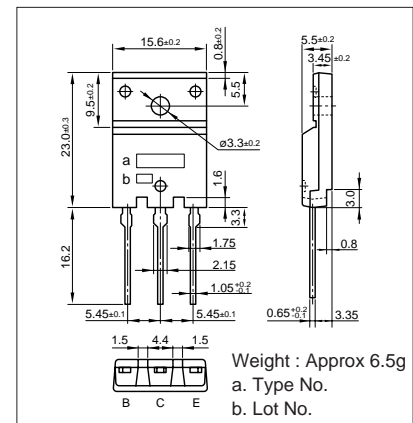
Symbol	2SB1587	Unit
V _{CB0}	-160	V
V _{CE0}	-150	V
V _{EB0}	-5	V
I _C	-8	A
I _B	-1	A
P _C	75(T _C =25°C)	W
T _J	150	°C
T _{stg}	-55 to +150	°C

■ Electrical Characteristics (Ta=25°C)

Symbol	Conditions	2SB1587	Unit
I _{CB0}	V _{CB} =-160V	-100max	μA
I _{EB0}	V _{EB} =-5V	-100max	μA
V _{(BR)CEO}	I _C =-30mA	-150min	V
h _{FE}	V _{CE} =-4V, I _C =-6A	5000min*	
V _{CE(sat)}	I _C =-6A, I _B =-6mA	-2.5max	V
V _{BE(sat)}	I _C =-6A, I _B =-6mA	-3.0max	V
f _T	V _{CE} =-12V, I _E =1A	65typ	MHz
COB	V _{CB} =-10V, f=1MHz	160typ	pF

*h_{FE} Rank ○(5000 to 12000), P(6500 to 20000), Y(15000 to 30000)

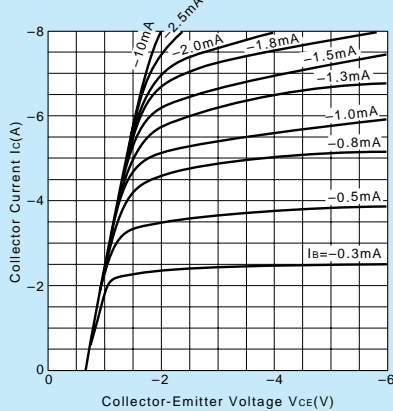
External Dimensions FM100(TO3PF)



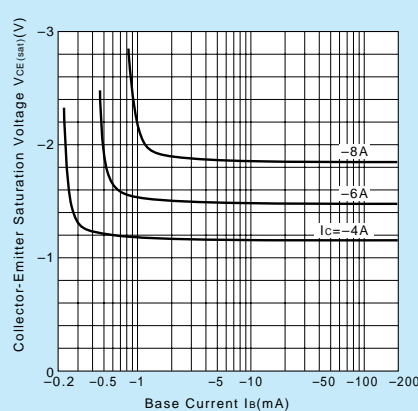
■ Typical Switching Characteristics (Common Emitter)

V _{CC} (V)	R _L (Ω)	I _C (A)	V _{BB1} (V)	V _{BB2} (V)	I _{B1} (mA)	I _{B2} (mA)	t _{on} (μs)	t _{stg} (μs)	t _f (μs)
-60	10	-6	-10	5	-6	6	0.7typ	3.6typ	0.9typ

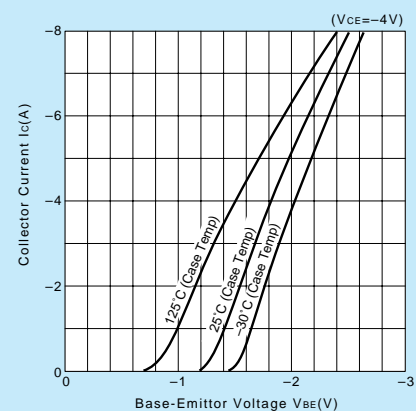
I_C-V_{CE} Characteristics (Typical)



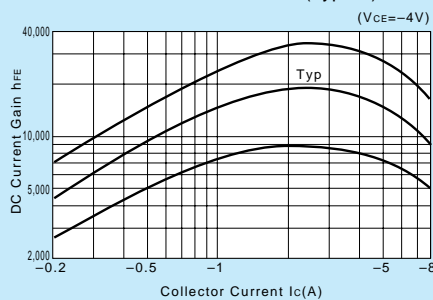
V_{CE(sat)}-I_B Characteristics (Typical)



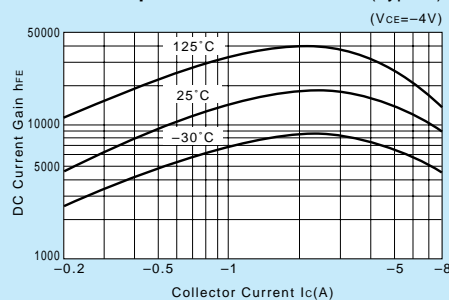
I_C-V_{BE} Temperature Characteristics (Typical)



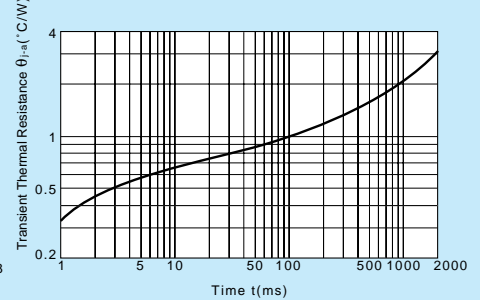
h_{FE}-I_C Characteristics (Typical)



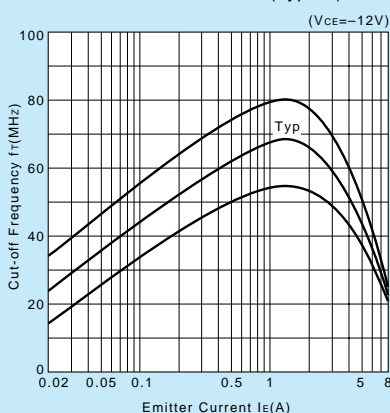
h_{FE}-I_C Temperature Characteristics (Typical)



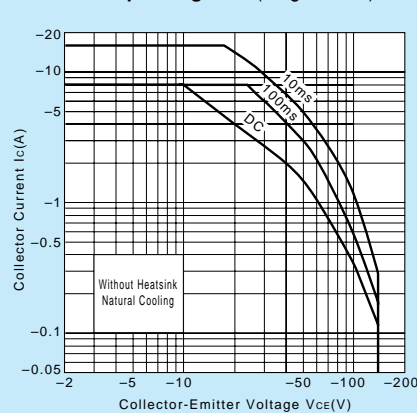
θ_{JA}-t Characteristics



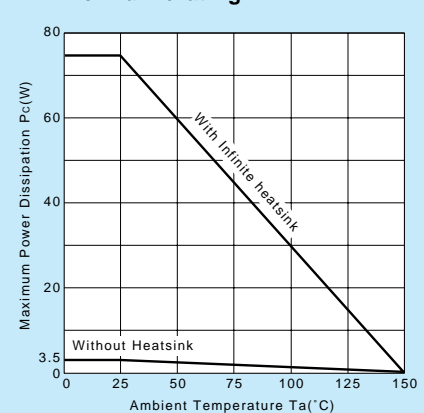
f_T-I_E Characteristics (Typical)



Safe Operating Area (Single Pulse)



P_C-T_a Derating



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