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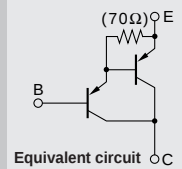
[Sanken](#)
[2SB1648](#)

For any questions, you can email us directly:

sales@integrated-circuit.com

Darlington

2SB1648



Silicon PNP Epitaxial Planar Transistor (Complement to type 2SD2561)

Application : Audio, Series Regulator and General Purpose

■Absolute maximum ratings (Ta=25°C)

Symbol	Ratings	Unit
V _{CBO}	-150	V
V _{CEO}	-150	V
V _{EBO}	-5	V
I _C	-17	A
I _B	-1	A
P _C	200(T _C =25°C)	W
T _j	150	°C
T _{stg}	-55 to +150	°C

■Electrical Characteristics (Ta=25°C)

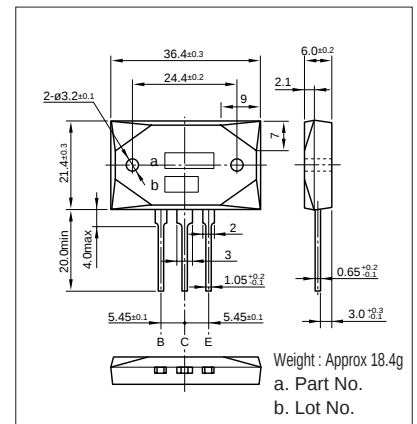
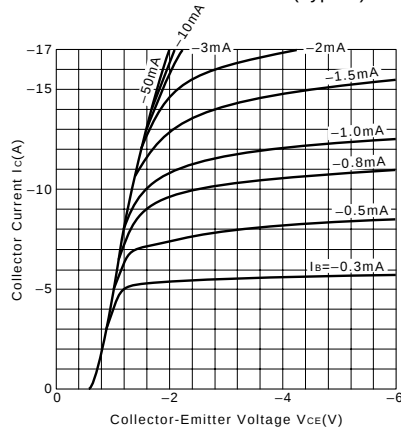
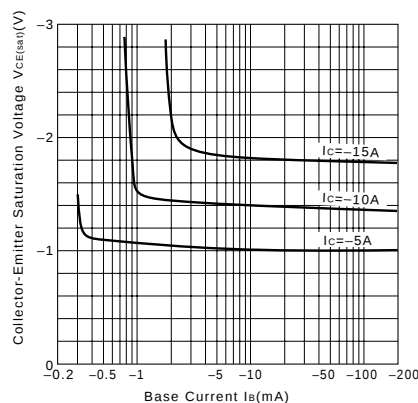
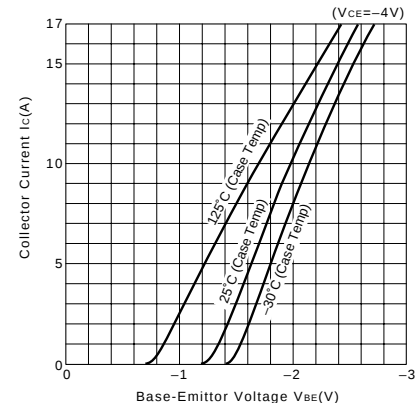
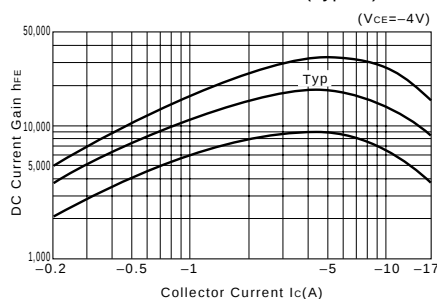
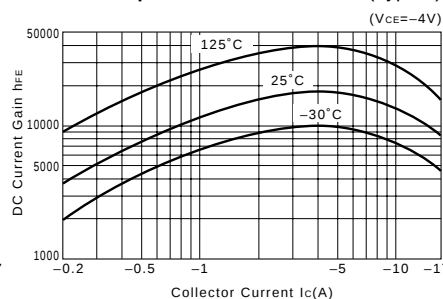
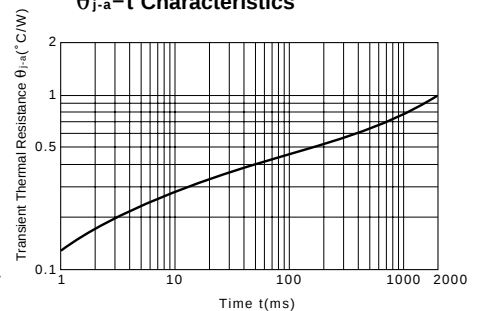
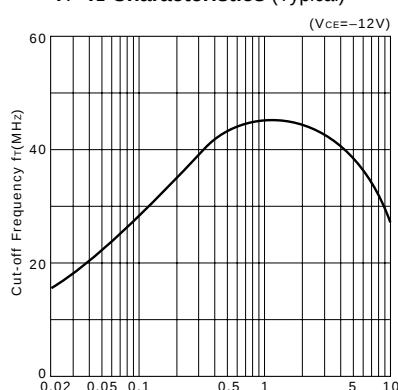
Symbol	Conditions	Ratings	Unit
I _{CBO}	V _{CB} =-150V	-100max	μA
I _{EBO}	V _{EB} =-5V	-100max	μA
V _{(BR)CEO}	I _C =-30mA	-150min	V
h _{FE}	V _{CE} =-4V, I _C =-10A	5000min*	
V _{CE(sat)}	I _C =-10A, I _B =-10mA	-2.5max	V
V _{BE(sat)}	I _C =-10A, I _B =-10mA	-3.0max	V
f _r	V _{CE} =-12V, I _E =2A	45typ	MHz
C _{OB}	V _{CB} =-10V, f=1MHz	320typ	pF

*h_{FE} Rank Q(5000to12000), P(6500to20000), Y(15000to30000)

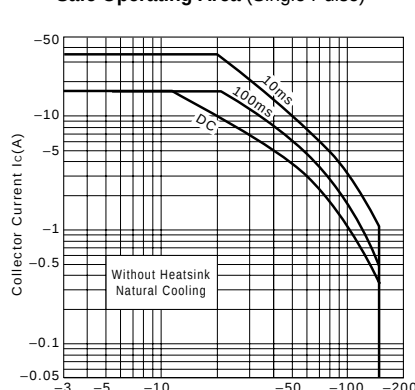
■Typical Switching Characteristics (Common Emitter)

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)
-40	4	-10	-10	5	-10	10	0.7typ	1.6typ	1.1typ

External Dimensions MT-200

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_{j-a}-t Characteristicsf_T-I_E Characteristics (Typical)

Safe Operating Area (Single Pulse)

P_C-T_a Derating