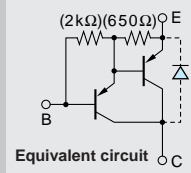


Darlington

2SB1257



Silicon PNP Epitaxial Planar Transistor (Complement to type 2SD2014)

Application : Driver for Solenoid, Relay and Motor and General Purpose

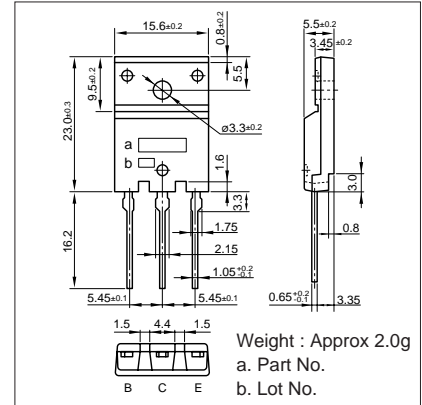
Absolute maximum ratings (Ta=25°C)

Symbol	Ratings	Unit
V _{CB0}	-60	V
V _{CEO}	-60	V
V _{EBO}	-6	V
I _C	-4 (Pulse-6)	A
I _B	-1	A
P _C	25 (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 _{CB0}	V _{CB} =-60V	-10max	μA
I _{EBO}	V _{EB} =-6V	-10max	μA
V _{(BR)CEO}	I _C =-10mA	-60min	V
h _{FE}	V _{CE} =-4V, I _C =-3A	2000min	
V _{CE(sat)}	I _C =-3A, I _B =-6mA	-1.5max	V
V _{BE(sat)}	I _C =-3A, I _B =-6mA	-2max	V
f _T	V _{CE} =-12V, I _E =0.2A	150typ	MHz
COB	V _{CB} =-10V, f=1MHz	75typ	pF

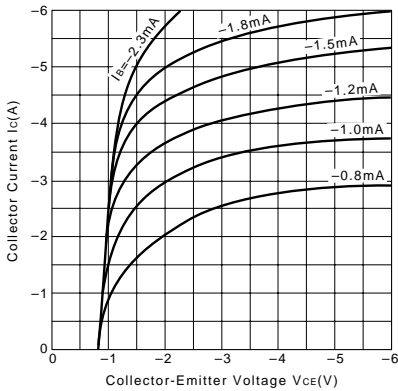
External Dimensions FM20(TO220F)



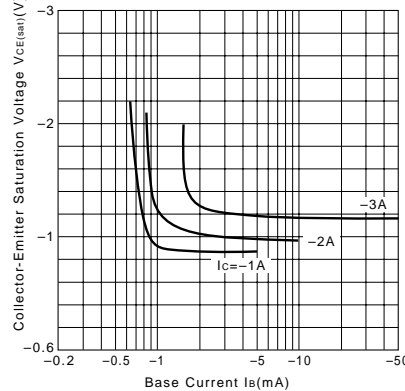
Typical Switching Characteristics (Common Emitter)

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)
-30	10	-3	-10	5	-10	10	0.4typ	0.8typ	0.6typ

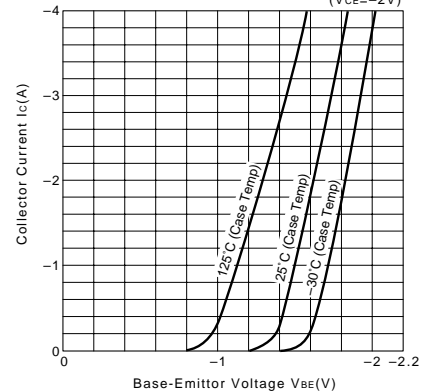
I_C-V_{CE} Characteristics (Typical)



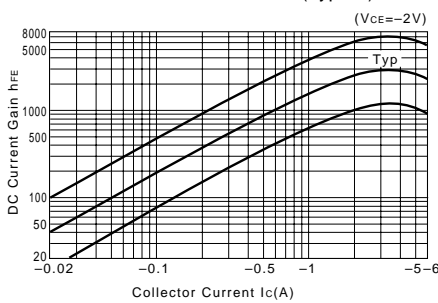
V_{CE(sat)}-I_B Characteristics (Typical)



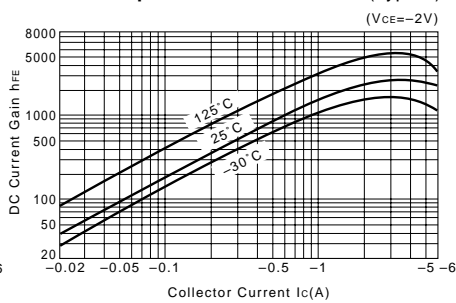
I_C-V_{BE} Temperature Characteristics (Typical)



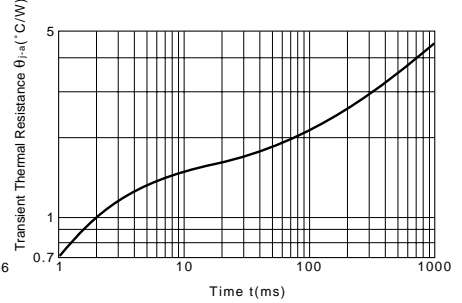
h_{FE}-I_C Characteristics (Typical)



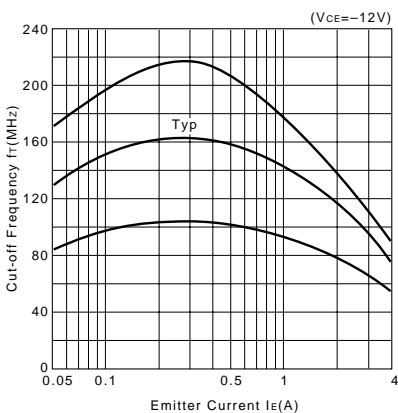
h_{FE}-I_C Temperature Characteristics (Typical)



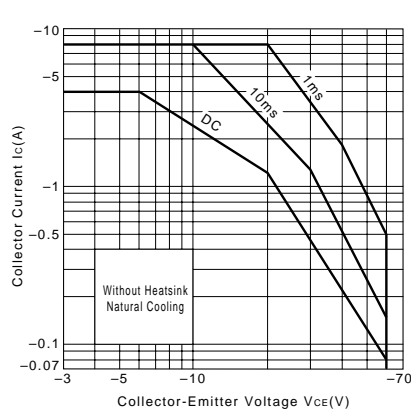
θ_{j-a}-t Characteristics



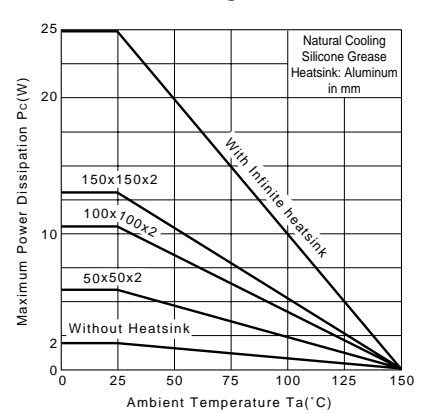
f_T-I_E Characteristics (Typical)



Safe Operating Area (Single Pulse)



P_C-T_a Derating



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