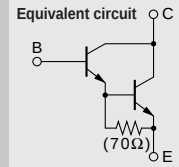


Darlington

2SD2562



Silicon NPN Triple Diffused Planar Transistor (Complement to type 2SB1649)

Application : Audio, Series Regulator and General Purpose

Absolute maximum ratings (Ta=25°C)

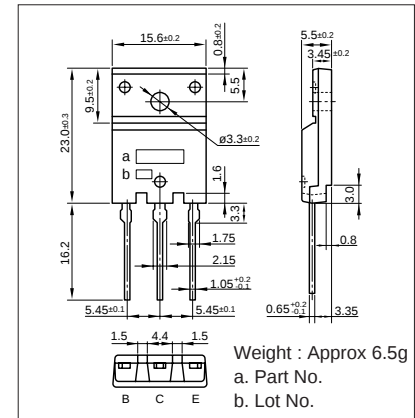
Symbol	Ratings	Unit
V _{CB0}	150	V
V _{CE0}	150	V
V _{EB0}	5	V
I _C	15	A
I _B	1	A
P _C	85(T _C =25°C)	W
T _j	150	°C
T _{stg}	-55 to +150	°C

Electrical Characteristics (Ta=25°C)

Symbol	Conditions	Ratings	Unit
I _{CB0}	V _{CB} =150V	100max	μA
I _{EB0}	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	70typ	MHz
C _{OB}	V _{CB} =10V, f=1MHz	120typ	pF

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

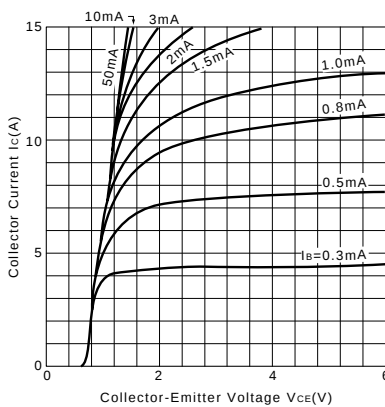
External Dimensions FM100(TO3PF)



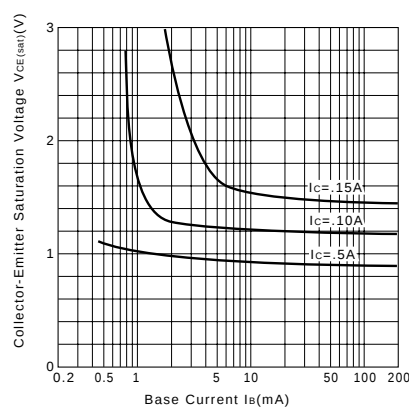
Typical Switching Characteristics (Common Emitter)

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)
40	4	10	10	-5	10	-10	0.8typ	4.0typ	1.2typ

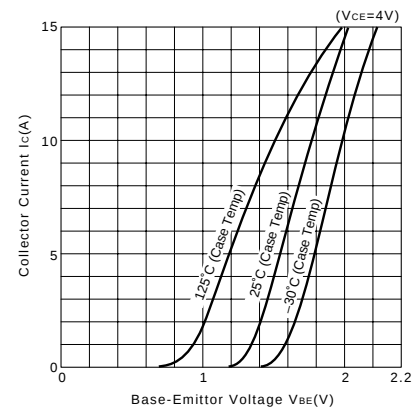
I_C-V_{CE} Characteristics (Typical)



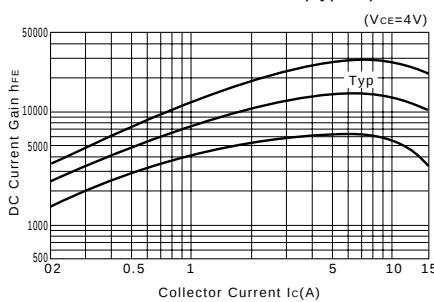
V_{CE(sat)}-I_B Characteristics (Typical)



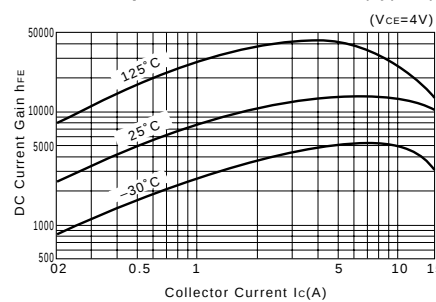
I_C-V_{BE} Temperature Characteristics (Typical)



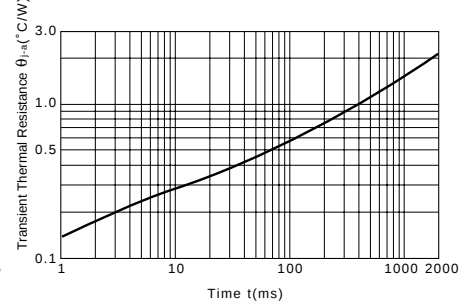
h_{FE}-I_C Characteristics (Typical)



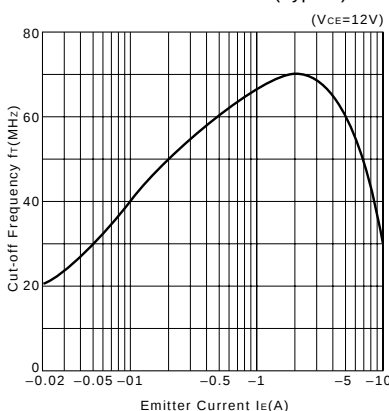
h_{FE}-I_C Temperature Characteristics (Typical)



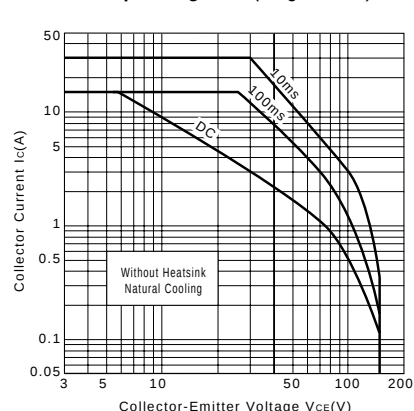
θ_{JA}-t Characteristics



f_T-I_E Characteristics (Typical)



Safe Operating Area (Single Pulse)



P_C-T_a Derating

