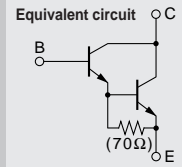# Darlington **2SD2560**

Equivalent circuit

Silicon NPN Triple Diffused Planar Transistor (Complement to type 2SB1647)

Application : Audio, Series Regulator and General Purpose
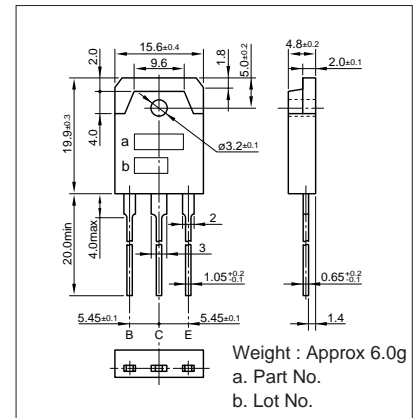
■Absolute maximum ratings (Ta=25°C)

Symbol	Ratings	Unit
V_{CBO}	150	V
V_{CEO}	150	V
V_{EBO}	5	V
I_C	15	A
I_B	1	A
P_C	130(Tc=25°C)	W
Tj	150	°C
Tstg	−55to+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_T	V_{CE}=12V, I_E=−2A	70typ	MHz
C_{OB}	V_{CB}=10V, f=1MHz	120typ	pF

∗h_{FE} Rank $\overline{O}$(5000 to 12000), P(6500 to 20000), Y(15000 to 30000)

External Dimensions MT-100(TO3P)

Weight : Approx 6.0g
a. Part No.
b. Lot No.

■Typical Switching Characteristics (Common Emitter)

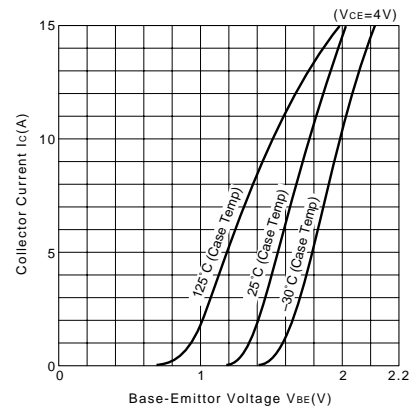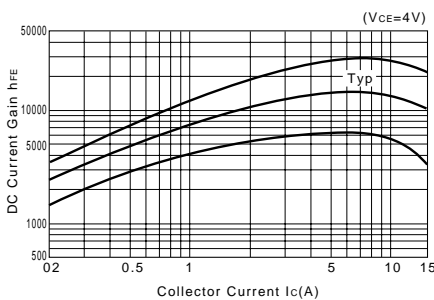| V_{CC} (V)	R_L (Ω)	I_C (A)	V_{BB1} (V)	V_{BB2} (V)	I_{B1} (mA)	I_{B2} (mA)	ton (μS)	tstg (μS)	tf (μS)
40	4	10	10	−5	10	−10	0.8typ	4.0typ	1.2typ

Ic−Vce Characteristics (Typical)
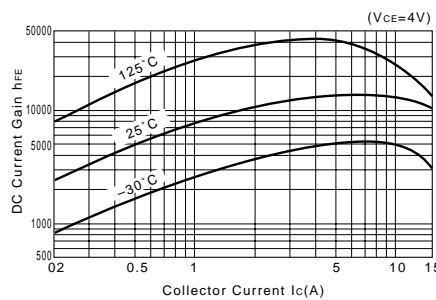

Vce(sat)−Ib Characteristics (Typical)

Ic−Vbe Temperature Characteristics (Typical)

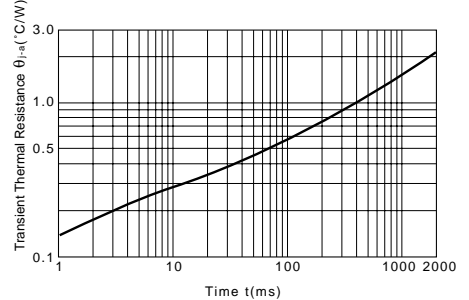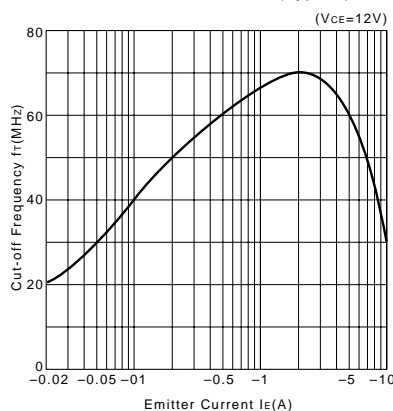**hFE−Ic Characteristics** (Typical)

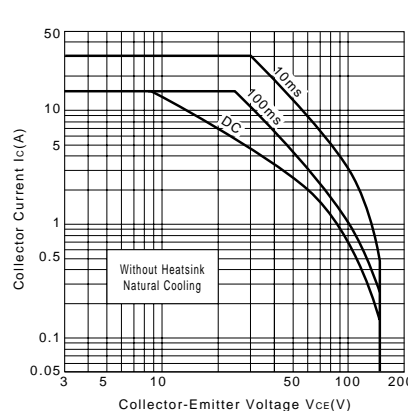**hFE−Ic Temperature Characteristics** (Typical)

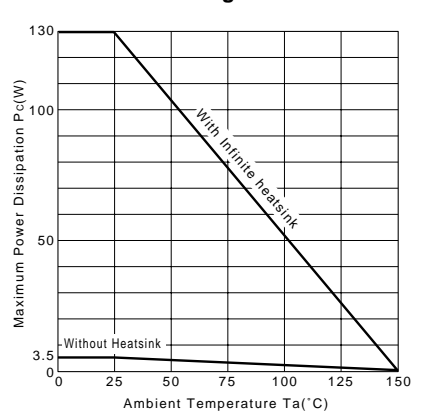**θj-a−t Characteristics**

fт−Iе Characteristics (Typical)

Safe Operating Area (Single Pulse)

Pc−Ta Derating

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