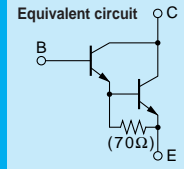


Darlington 2SD2560



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

Application : Audio, Series Regulator and General Purpose

Absolute maximum ratings (Ta=25°C)

Symbol	2SD2560	Unit
V _{CB0}	150	V
V _{CE0}	150	V
V _{EB0}	5	V
I _C	15	A
I _B	1	A
P _C	130(T _C =25°C)	W
T _J	150	°C
T _{stg}	-55to+150	°C

Electrical Characteristics (Ta=25°C)

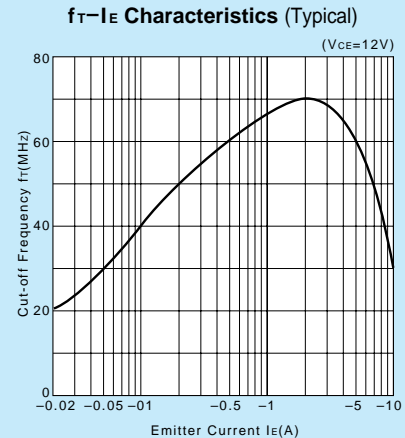
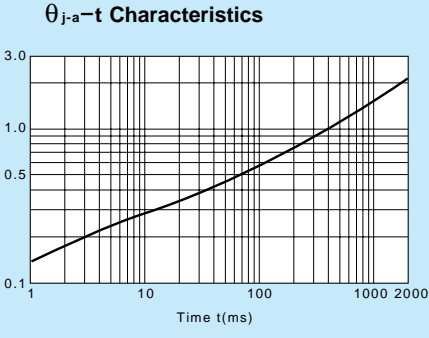
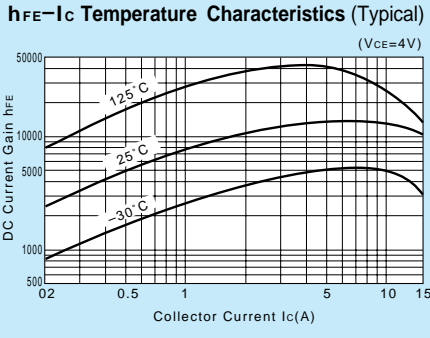
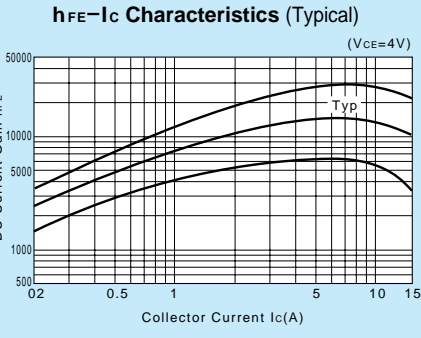
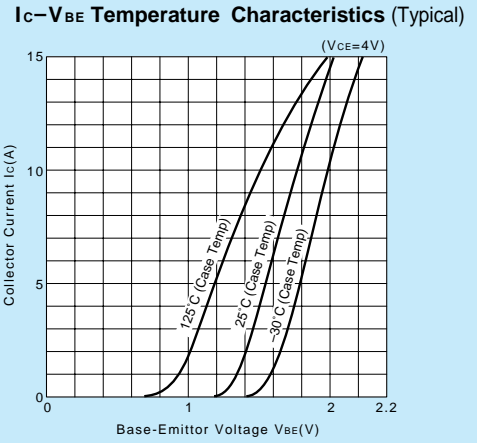
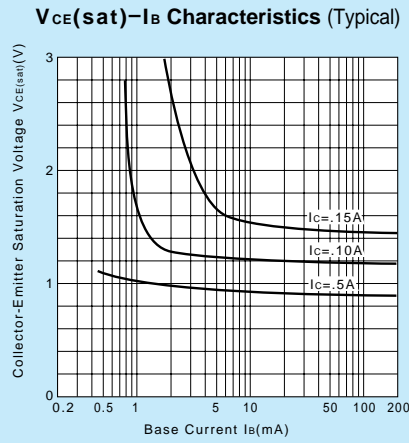
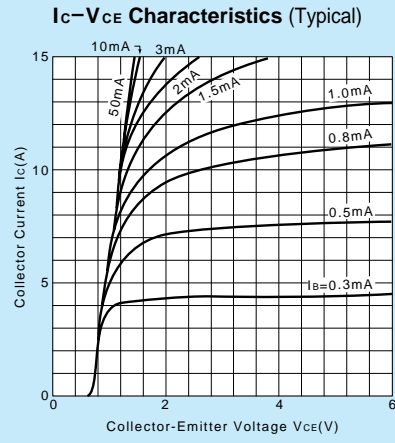
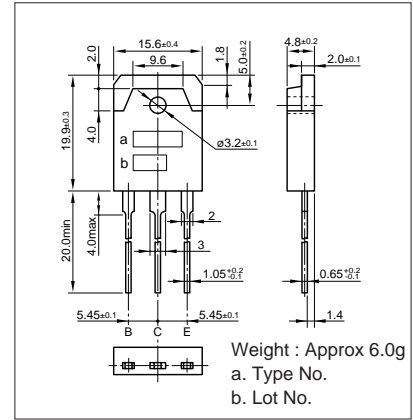
Symbol	Conditions	2SD2560	Unit
I _{CB0}	V _{CB} =150V	100max	μA
I _{EB0}	V _{EB} =5V	100max	μA
V _{(BR)CEO}	I _C =30mA	150min	V
h _{FE}	V _{CE} =4V, I _C =10A	5000min*	
V _{CE(sat)}	I _C =10A, I _B =10mA	2.5max	V
V _{BE(sat)}	I _C =10A, I _B =10mA	3.0max	V
f _T	V _{CE} =12V, I _E =-2A	70typ	MHz
COB	V _{CB} =10V, f=1MHz	120typ	pF

*h_{FE} Rank: O(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	0.8typ	4.0typ	1.2typ

External Dimensions MT-100(TO3P)



Safe Operating Area (Single Pulse)

