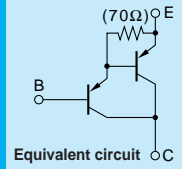


Darlington

2SB1647



Silicon PNP Epitaxial Planar Transistor (Complement to type 2SD2560)

Application : Audio, Series Regulator and General Purpose

Absolute maximum ratings (Ta=25°C)

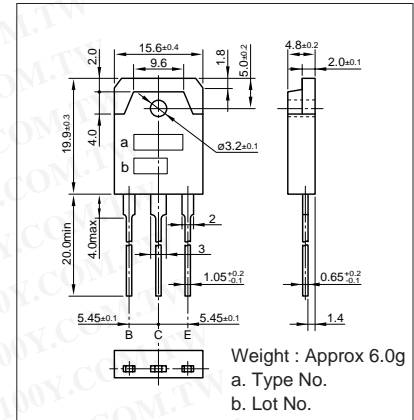
Symbol	2SB1647	Unit
V _{CB0}	-150	V
V _{CE0}	-150	V
V _{EB0}	-5	V
I _C	-15	A
I _B	-1	A
P _C	130(T _C =25°C)	W
T _J	150	°C
T _{stg}	-55 to +150	°C

Electrical Characteristics (Ta=25°C)

Symbol	Conditions	2SB1647	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	45typ	MHz
COB	V _{CB} =-10V, f=1MHz	320typ	pF

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

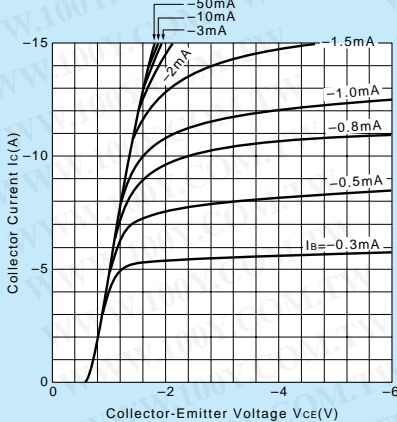
External Dimensions MT-100(TO3P)



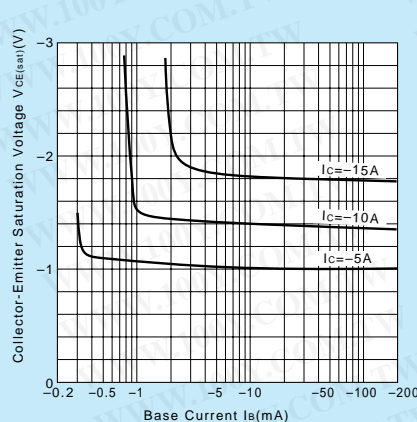
Typical Switching Characteristics (Common Emitter)

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

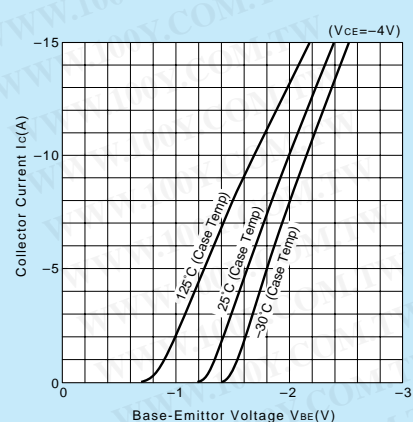
I_C-V_{CE} Characteristics (Typical)



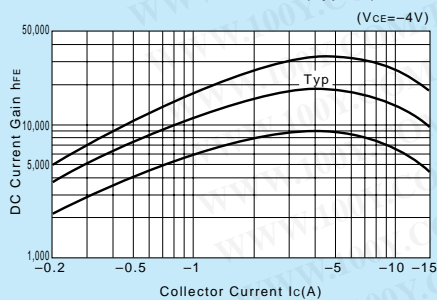
V_{CE(sat)}-I_B Characteristics (Typical)



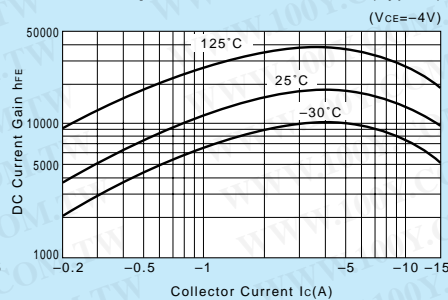
I_C-V_{BE} Temperature Characteristics (Typical)



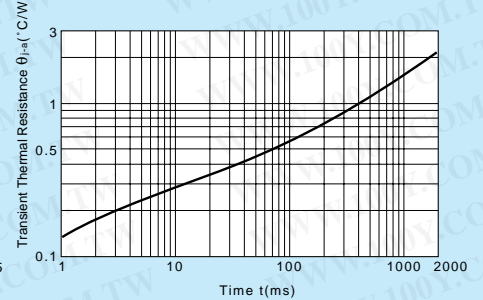
h_{FE}-I_C Characteristics (Typical)



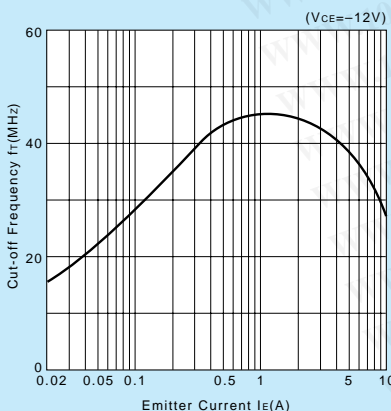
h_{FE}-I_C Temperature Characteristics (Typical)



θ_{j-a}-t Characteristics



f_T-I_E Characteristics (Typical)



Safe Operating Area (Single Pulse)

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-54151736
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

P_C-T_a Derating

