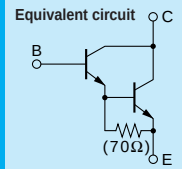


Darlington

2SD2493



Silicon NPN Triple Diffused Planar Transistor (Complement to type 2SB1624)

Application : Audio, Series Regulator and General Purpose

■ Absolute maximum ratings (Ta=25°C)

Symbol	2SD2493	Unit
V _{CB0}	110	V
V _{CE0}	110	V
V _{EB0}	5	V
I _c	6	A
I _B	1	A
P _c	60(T _c =25°C)	W
T _j	150	°C
T _{stg}	-55 to +150	°C

■ Electrical Characteristics (Ta=25°C)

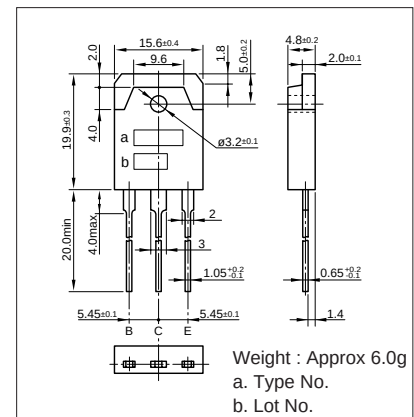
Symbol	Conditions	2SD2493	Unit
I _{CB0}	V _{CB} =110V	100max	μA
I _{EB0}	V _{EB} =5V	100max	μA
V _{(BR)CEO}	I _c =30mA	110min	V
h _{FE}	V _{CE} =4V, I _c =5A	5000min*	
V _{CE(sat)}	I _c =5A, I _B =5mA	2.5max	V
V _{BE(sat)}	I _c =5A, I _B =5mA	3.0max	V
f _r	V _{CE} =12V, I _E =-2A	60typ	MHz
C _{OB}	V _{CB} =10V, f=1MHz	55typ	pF

*h_{FE} Rank Q(5000 to 12000), P(6500 to 20000), Y(15000 to 30000)

■ Typical Switching Characteristics (Common Emitter)

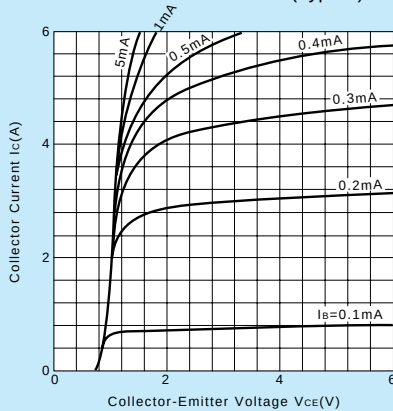
V _{CC} (V)	R _L (Ω)	I _c (A)	V _{BB1} (V)	V _{BB2} (V)	I _{B1} (mA)	I _{B2} (mA)	t _{on} (μs)	t _{stg} (μs)	t _f (μs)
30	6	5	10	-5	5	-5	0.8typ	6.2typ	1.1typ

External Dimensions MT-100(TO3P)

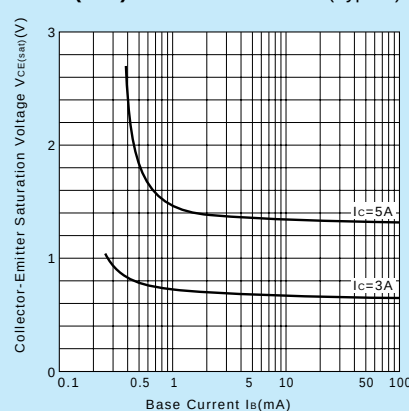


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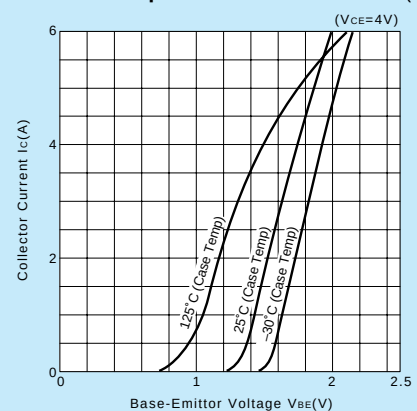
I_c-V_{CE} Characteristics (Typical)



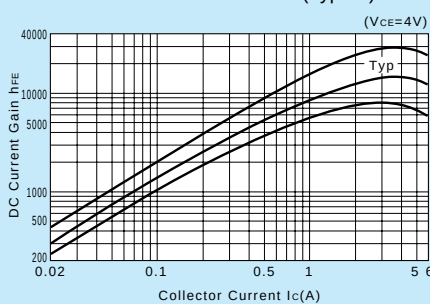
V_{CE(sat)}-I_B Characteristics (Typical)



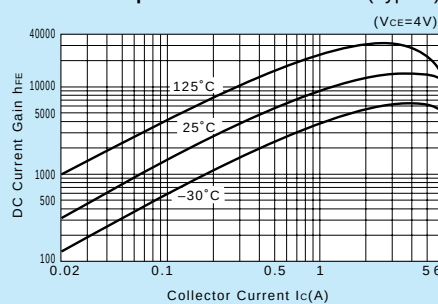
I_c-V_{BE} Temperature Characteristics (Typical)



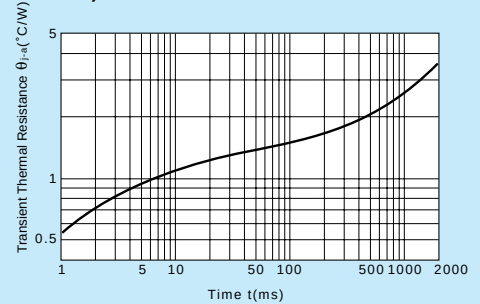
h_{FE}-I_c Characteristics (Typical)



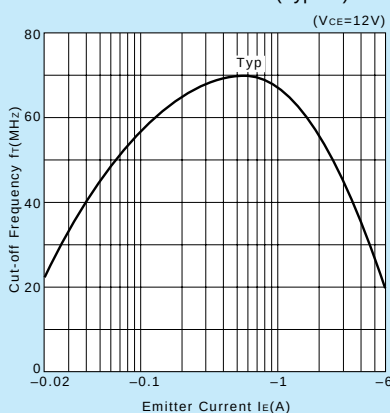
h_{FE}-I_c Temperature Characteristics (Typical)



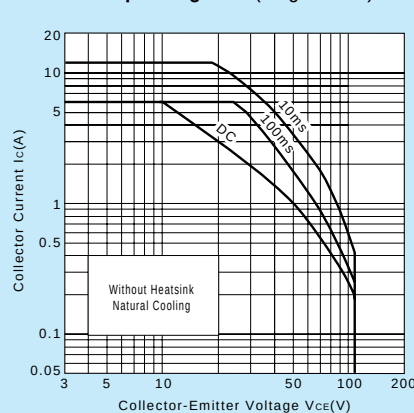
θ_{J-a}-t Characteristics



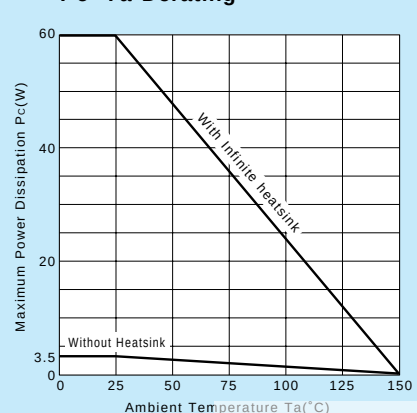
f_r-I_E Characteristics (Typical)



Safe Operating Area (Single Pulse)



P_c-T_a Derating



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