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2SC4304

Silicon NPN Triple Diffused Planar Transistor (High Voltage High Speed Switching Transistor)

Application : Switching Regulator and General Purpose

Absolute maximum ratings (Ta=25°C)

Symbol	2SC4304	Unit
V _{CB0}	900	V
V _{CEO}	800	V
V _{EB0}	7	V
I _c	3(Pulse6)	A
I _B	1.5	A
P _c	35(Tc=25°C)	W
T _j	150	°C
T _{stg}	-55 to +150	°C

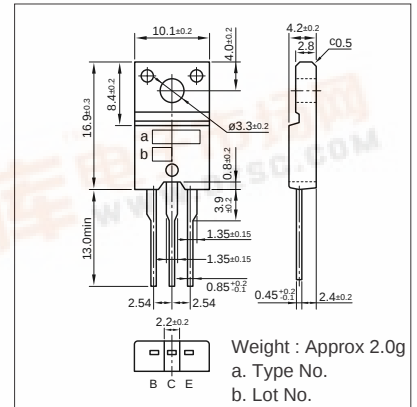
Electrical Characteristics (Ta=25°C)

Symbol	Conditions	2SC4304	Unit
I _{CB0}	V _{CB} =800V	100max	μA
I _{EB0}	V _{EB} =7V	100max	μA
V _{(BR)CEO}	I _c =10mA	800min	V
h _{FE}	V _{CE} =4V, I _c =0.7A	10 to 30	
V _{CE(sat)}	I _c =0.7A, I _B =0.14A	0.5max	V
V _{BE(sat)}	I _c =0.7A, I _B =0.14A	1.2max	V
f _r	V _{CE} =12V, I _e =-0.3A	15typ	MHz
COB	V _{CB} =10V, f=1MHz	50typ	pF

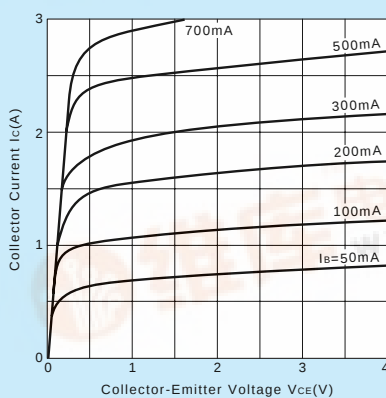
Typical Switching Characteristics (Common Emitter)

V _{CC} (V)	R _L (Ω)	I _c (A)	V _{BB1} (V)	V _{BB2} (V)	I _{B1} (A)	I _{B2} (A)	t _{on} (μs)	t _{stg} (μs)	t _f (μs)
250	357	0.7	10	-5	0.1	-0.35	0.7max	4.0max	0.7max

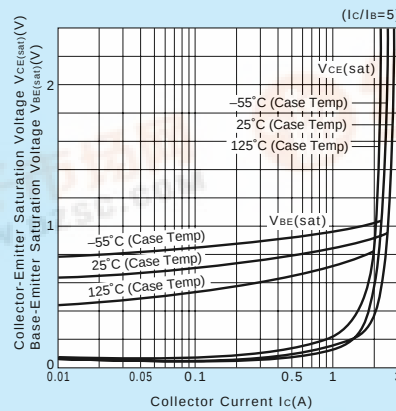
External Dimensions FM20(TO220F)



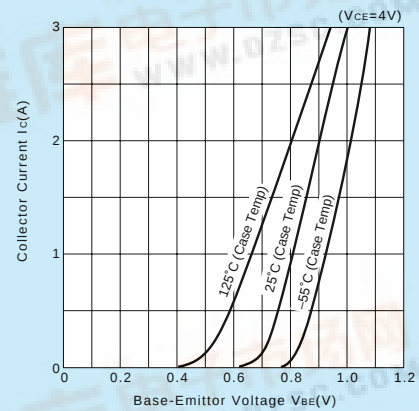
I_c-V_{CE} Characteristics (Typical)



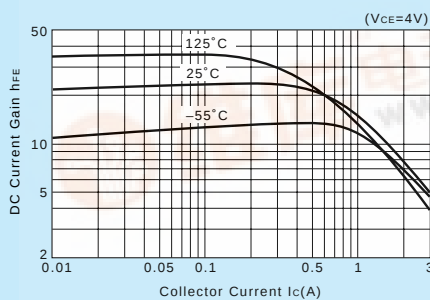
V_{CE(sat)}, V_{BE(sat)}-I_c Temperature Characteristics (Typical)



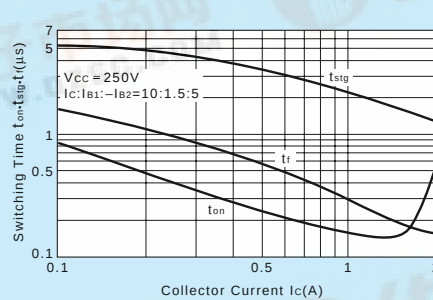
I_c-V_{BE} Temperature Characteristics (Typical)



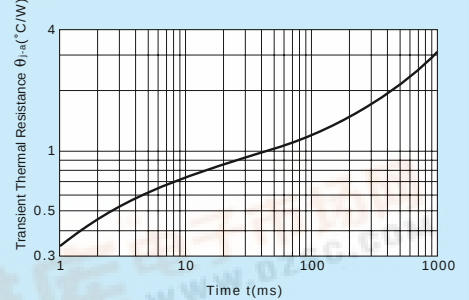
h_{FE}-I_c Characteristics (Typical)



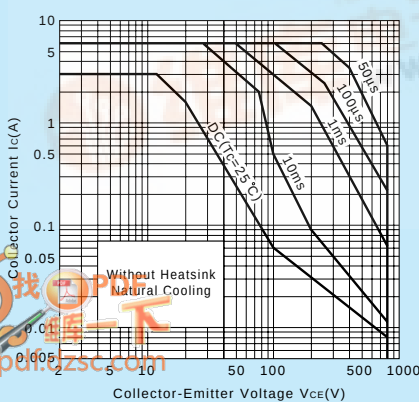
t_{on}•t_{stg}•t_f-I_c Characteristics (Typical)



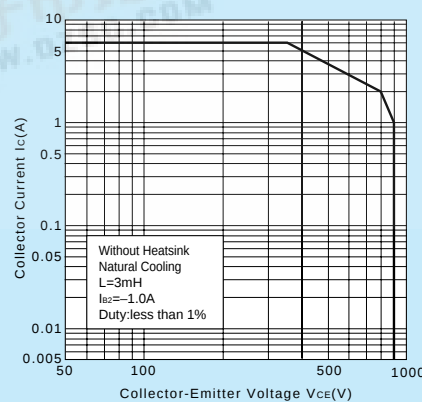
θ_{JA}-t Characteristics



Safe Operating Area (Single Pulse)



Reverse Bias Safe Operating Area



P_c-T_a Derating

