

2SC4445

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

Application : Switching Regulator and General Purpose

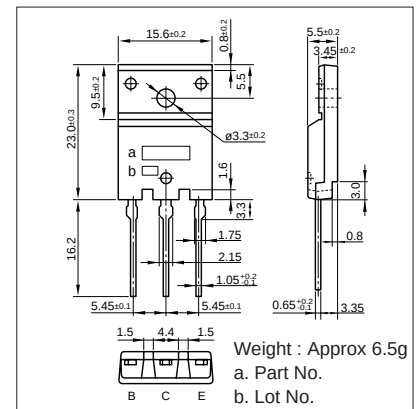
Absolute maximum ratings (Ta=25°C)

Symbol	Ratings	Unit
V _{CB0}	900	V
V _{CE0}	800	V
V _{EB0}	7	V
I _C	3(Pulse6)	A
I _B	1.5	A
P _C	60(Tc=25°C)	W
T _j	150	°C
T _{stg}	-55 to +150	°C

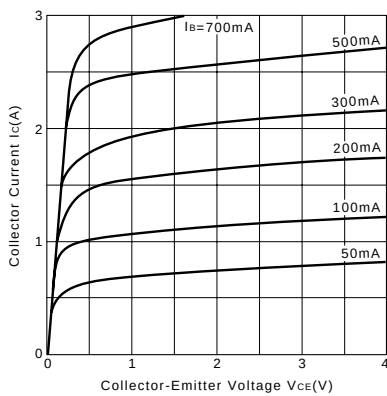
Electrical Characteristics (Ta=25°C)

Symbol	Conditions	Ratings	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
C _{OB}	V _{CB} =10V, f=1MHz	50typ	pF

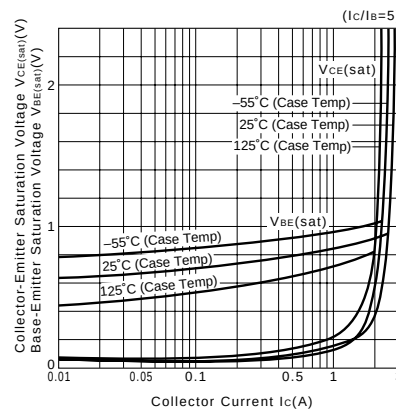
External Dimensions FM100(TO3PF)



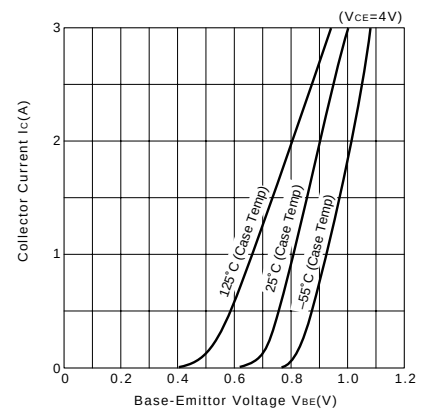
I_C-V_{CE} Characteristics (Typical)



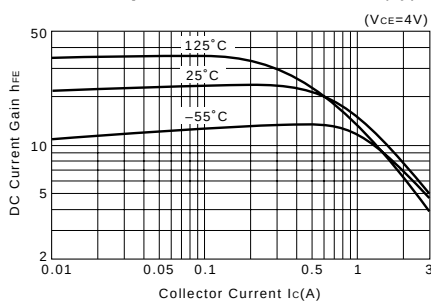
V_{CE(sat)}, V_{BE(sat)}-I_C Temperature Characteristics (Typical)



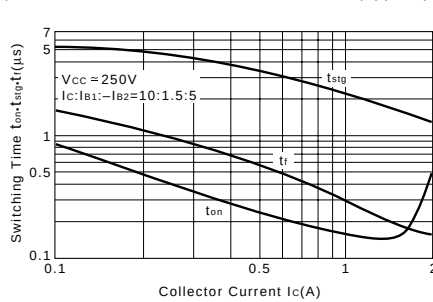
I_C-V_{BE} Temperature Characteristics (Typical)



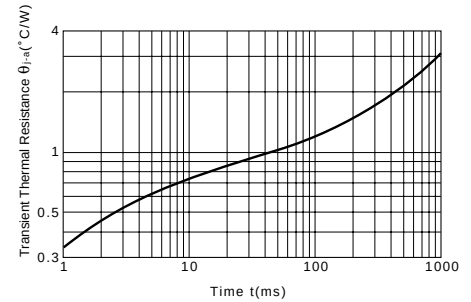
h_{FE}-I_C Temperature Characteristics (Typical)



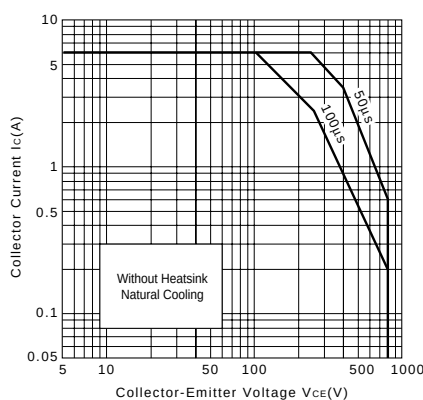
t_{on}•t_{stg}•t_r-I_C Characteristics (Typical)



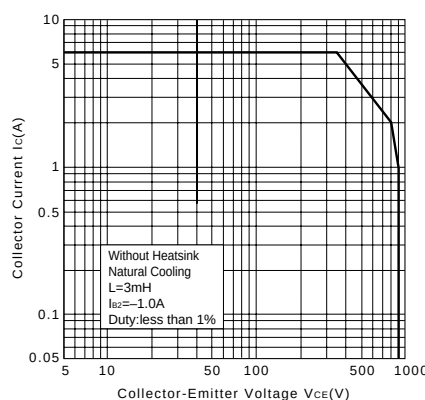
θ_{j-a}-t Characteristics



Safe Operating Area (Single Pulse)



Reverse Bias Safe Operating Area



P_C-T_a Derating

