

2SC4388

Silicon NPN Triple Diffused Planar Transistor (Complement to type 2SA1673)

Application : Audio and General Purpose

Absolute maximum ratings (Ta=25°C)

Symbol	2SC4388	Unit
V _{CB0}	200	V
V _{CEO}	180	V
V _{EB0}	6	V
I _C	15	A
I _B	4	A
P _C	85(T _C =25°C)	W
T _J	150	°C
T _{stg}	-55 to +150	°C

Electrical Characteristics (Ta=25°C)

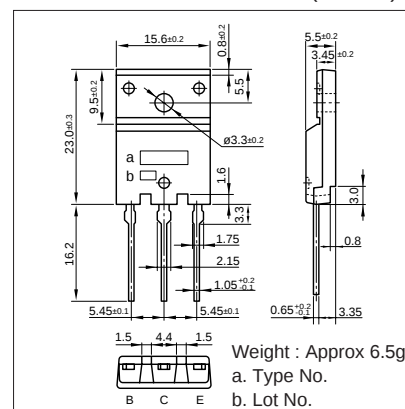
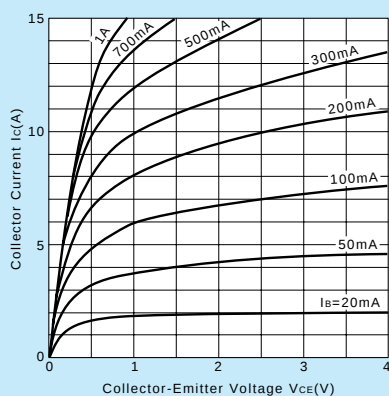
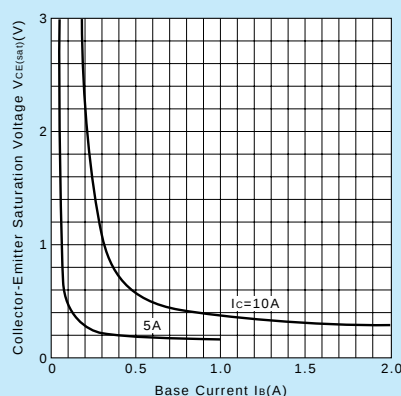
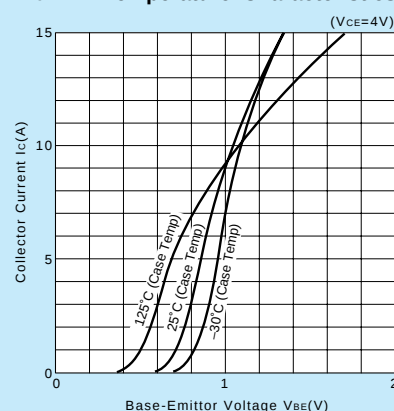
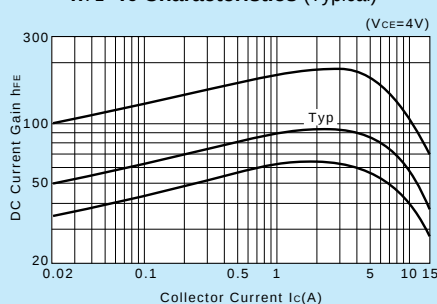
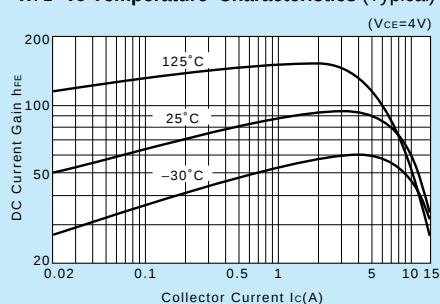
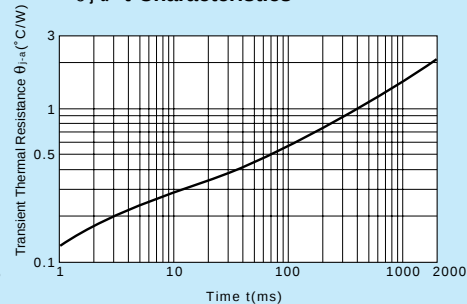
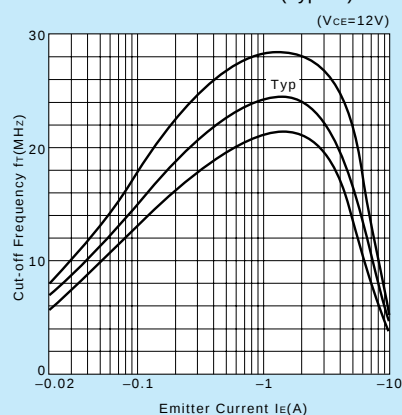
Symbol	Conditions	2SC4388	Unit
I _{CB0}	V _{CB} =200V	10max	μA
I _{EB0}	V _{EB} =6V	10max	μA
V _{(BR)CEO}	I _C =50mA	180min	V
h _{FE}	V _{CE} =4V, I _C =3A	50min*	
V _{CE(sat)}	I _C =5A, I _B =0.5A	2.0max	V
f _r	V _{CE} =12V, I _E =-0.5A	20typ	MHz
C _{OB}	V _{CB} =10V, f=1MHz	300typ	pF

*h_{FE} Rank ○(50 to 100), P(70 to 140), Y(90 to 180)

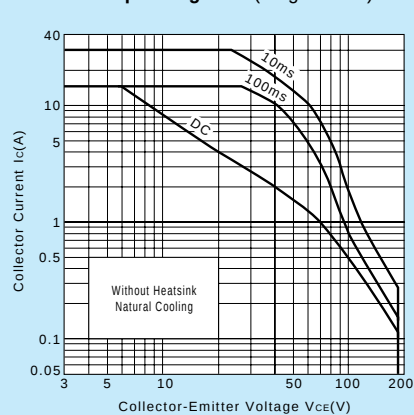
Typical Switching Characteristics (Common Emitter)

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)
40	4	10	10	-5	1	-1	0.5max	1.8max	0.6max

External Dimensions FM100(TO3PF)

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 Characteristicsf_r-I_E Characteristics (Typical)

Safe Operating Area (Single Pulse)

P_C-T_a Derating