

2SC3179

Silicon NPN Triple Diffused Planar Transistor (Complement to type 2SA1262)

Application : Audio and General Purpose

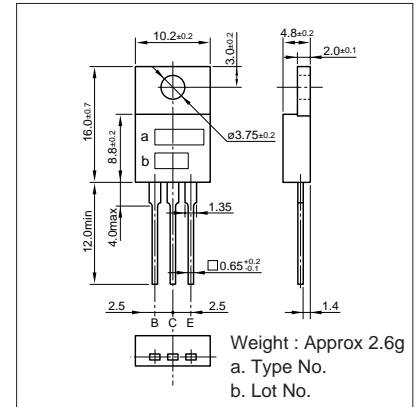
Absolute maximum ratings (Ta=25°C)

Symbol	2SC3179	Unit
V _{CB0}	80	V
V _{CEO}	60	V
V _{EB0}	6	V
I _C	4	A
I _B	1	A
P _C	30(T _C =25°C)	W
T _J	150	°C
T _{stg}	-55 to +150	°C

Electrical Characteristics (Ta=25°C)

Symbol	Conditions	2SC3179	Unit
I _{CB0}	V _{CB} =80V	100max	μA
I _{EB0}	V _{EB} =6V	100max	μA
V _{(BR)CEO}	I _C =25mA	60min	V
h _{FE}	V _{CE} =4V, I _C =1V	40min	
V _{CE(sat)}	I _C =2A, I _B =0.2A	0.6max	V
f _r	V _{CE} =12V, I _E =-0.2A	15typ	MHz
C _{OB}	V _{CB} =10V, f=1MHz	60typ	pF

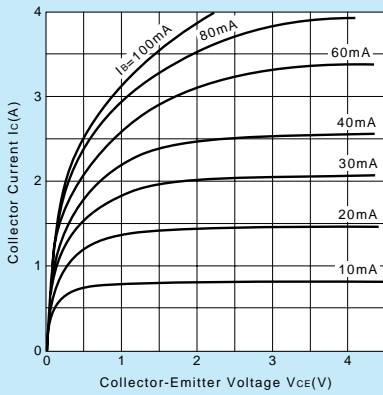
External Dimensions MT-25(TO220)



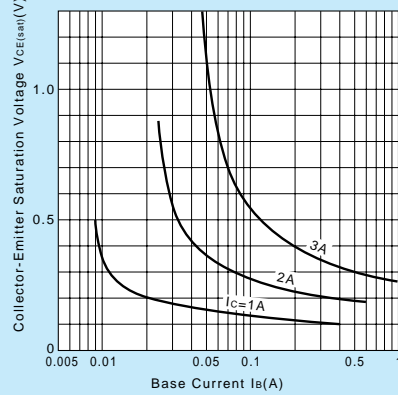
Typical Switching Characteristics (Common Emitter)

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)
20	10	2	10	-5	200	-200	0.2typ	1.9typ	0.29typ

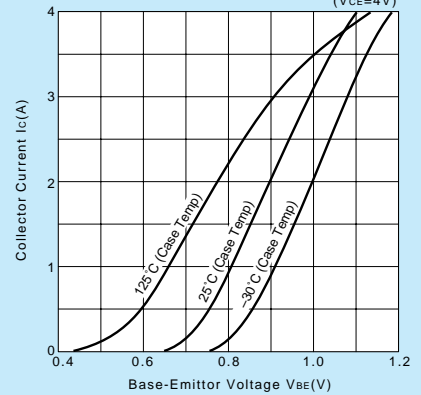
I_C-V_{CE} Characteristics (Typical)



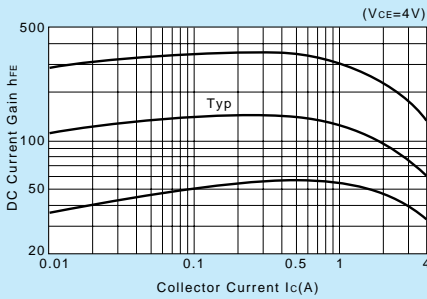
V_{CE(sat)}-I_B Characteristics (Typical)



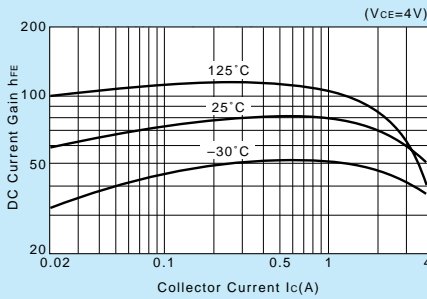
I_C-V_{BE} Temperature Characteristics (Typical)



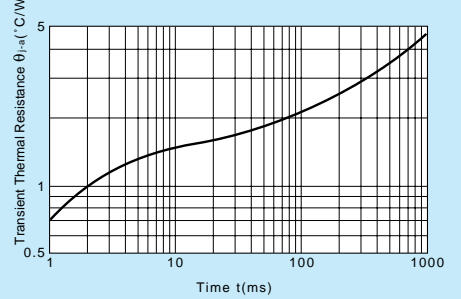
h_{FE}-I_C Characteristics (Typical)



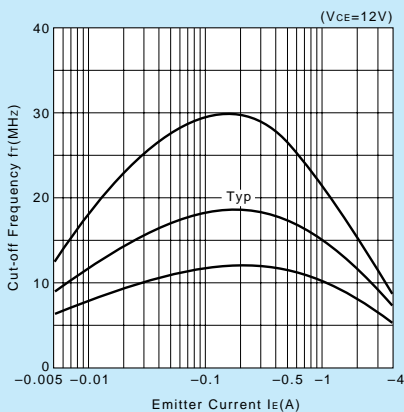
h_{FE}-I_C Temperature Characteristics (Typical)



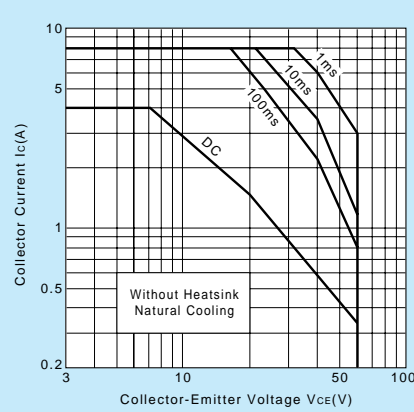
θ_{j-a}-t Characteristics



f_T-I_E Characteristics (Typical)



Safe Operating Area (Single Pulse)



P_C-T_a Derating

