

Silicon PNP Epitaxial Planar Transistor (Complement to type 2SC2921)

Application : Audio and General Purpose

■ Absolute maximum ratings (Ta=25°C)

Symbol	2SA1215	Unit
V _{CB0}	-160	V
V _{CE0}	-160	V
V _{EB0}	-5	V
I _C	-15	A
I _B	-4	A
P _C	150(T _C =25°C)	W
T _J	150	°C
T _{stg}	-55 to +150	°C

■ Electrical Characteristics (Ta=25°C)

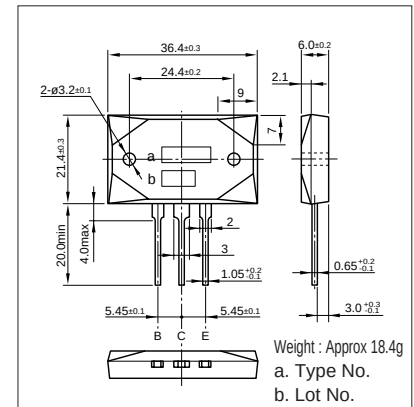
Symbol	Conditions	2SA1215	Unit
ICBO	$V_{CB} = -160V$	-100max	μA
IEBO	$V_{EB} = -5V$	-100max	μA
$V_{(BR)CEO}$	$I_C = -25mA$	-160min	V
h_{FE}	$V_{CE} = -4V, I_C = -5A$	50min*	
$V_{CE(sat)}$	$I_C = -5A, I_B = -0.5A$	-2.0max	V
f _r	$V_{CE} = -12V, I_E = 2A$	50typ	MHz
C _{OB}	$V_{CB} = -10V, f = 1MHz$	400typ	pF

*hFE Rank $\bar{O}$ (50 to 100), P(70 to 140), Y(90 to 180)

■ Typical Switching Characteristics (Common Emitter)

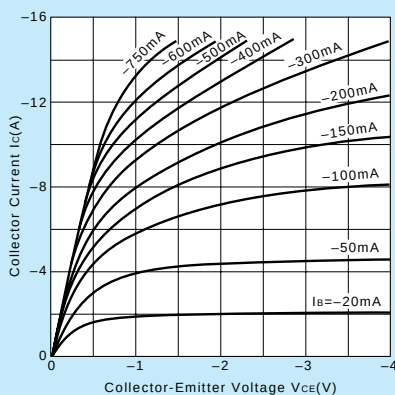
V _{CC} (V)	R _L (Ω)	I _C (A)	V _{B2} (V)	I _{B1} (mA)	I _{B2} (mA)	t _{on} (μs)	t _{stg} (μs)	t _f (μs)
−60	12	−5	5	−500	500	0.25typ	0.85typ	0.2typ

External Dimensions MT-200

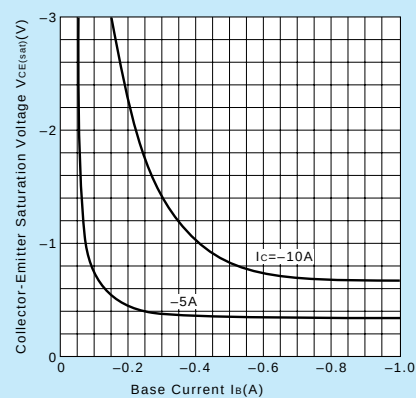


Weight : Approx 18.4g
a. Type No.
b. Lot No.

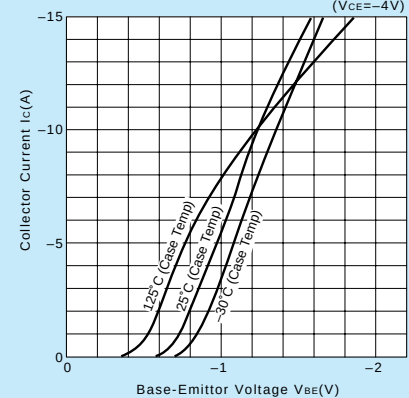
I_C - V_{CE} Characteristics (Typical)



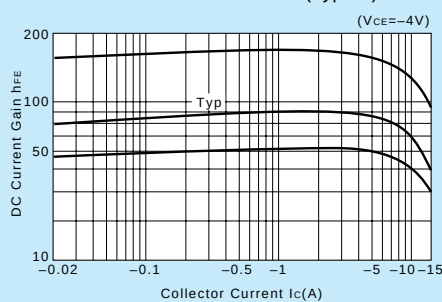
V_{CE(sat)}-I_B Characteristics (Typical)



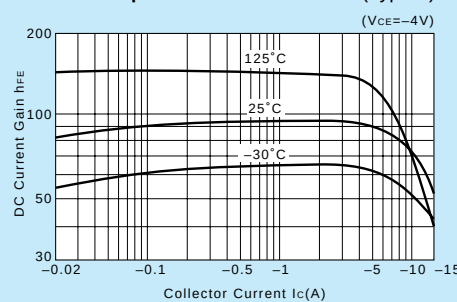
I_C-V_{BE} Temperature Characteristics (Typical)



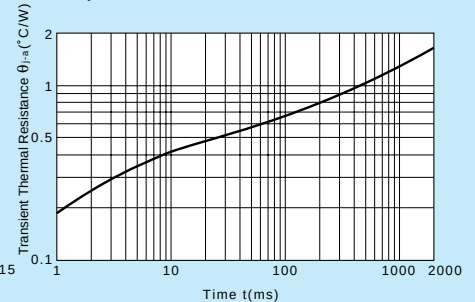
$h_{FE}-I_C$ Characteristics (Typical)



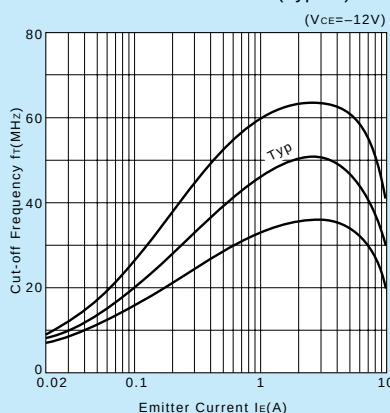
$h_{FE}-I_C$ Temperature Characteristics (Typical)



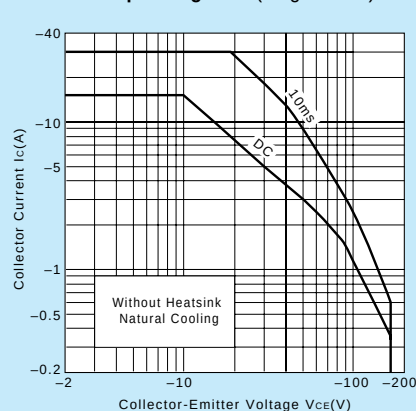
θ_{j-a-t} Characteristics



f_T-I_E Characteristics (Typical)



Safe Operating Area (Single Pulse)



Pc-Ta Derating

