

Application : Audio and General Purpose

(Ta=25°C)

Symbol	Ratings	Unit
V _{CB0}	230	V
V _{CE0}	230	V
V _{EB0}	5	V
I _C	17	A
I _B	5	A
P _C	200(T _C =25°C)	W
T _J	150	°C
T _{stg}	-55 to +150	°C

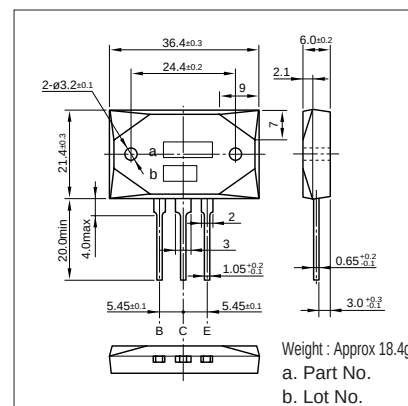
Symbol	Conditions	Ratings	Unit
ICBO	$V_{CB}=230V$	100max	μA
IEBO	$V_{EB}=5V$	100max	μA
$V_{(BR)CEO}$	$I_C=25mA$	230min	V
h_{FE}	$V_{CE}=4V, I_C=5A$	50min*	
$V_{CE(sat)}$	$I_C=5A, I_B=0.5A$	2.0max	V
f_T	$V_{CE}=12V, I_E=-2A$	60typ	MHz
COB	$V_{CB}=10V, f=1MHz$	250typ	pF

*h_{FE} Rank $\bar{O}$ (50 to 100), Y(70 to 140)

■ Typical Switching Characteristics (Common Emitter)

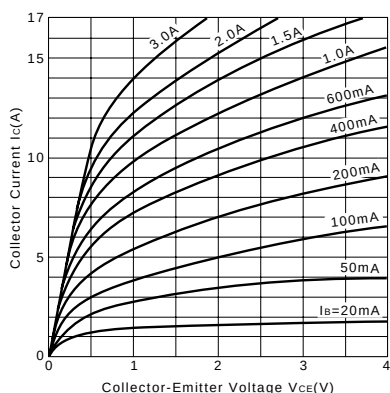
V _{CC} (V)	R _L (Ω)	I _C (A)	V _{BB1} (V)	V _{BB2} (V)	I _{B1} (A)	I _{B2} (A)	t _{on} (μs)	t _{stg} (μs)	t _f (μs)
60	12	5	10	-5	0.5	-0.5	0.30typ	2.40typ	0.50typ

External Dimensions MT-200

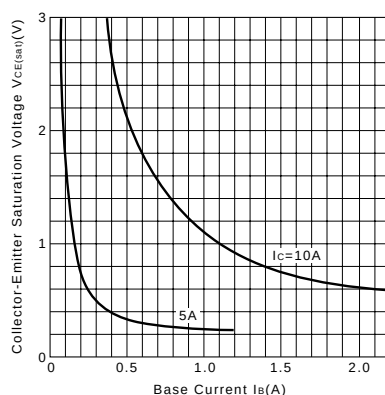


Weight : Approx 18.4g
a. Part No.
b. Lot No.

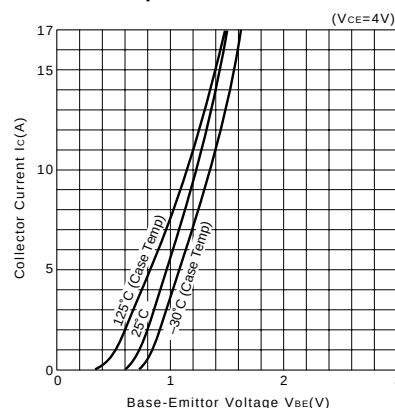
I_C-V_{CE} Characteristics (Typical)



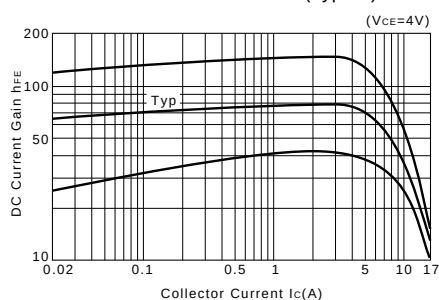
V_{CE(sat)}-I_B Characteristics (Typical)



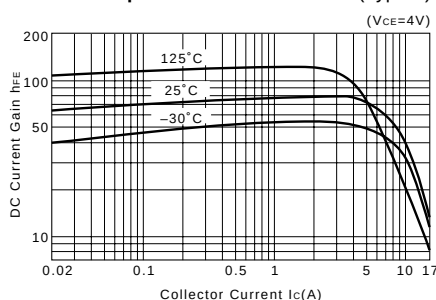
I_C-V_{BE} Temperature Characteristics (Typical)



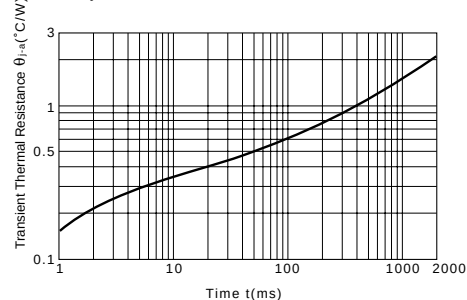
$h_{FE}-I_C$ Characteristics (Typical)



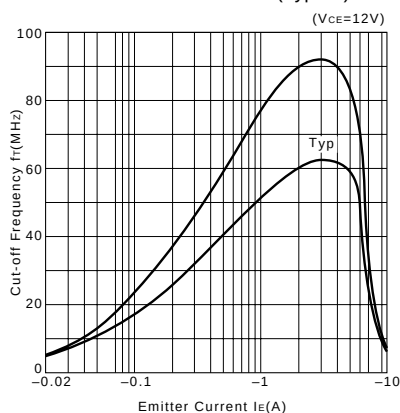
h_{FE} - I_C Temperature Characteristics (Typical)



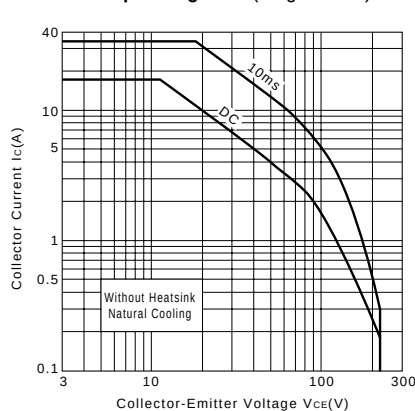
θ_{j-a-t} Characteristics



f_T-I_E Characteristics (Typical)



Safe Operating Area (Single Pulse)



Pc-Ta Derating

