LAPT 2SC3263

Silicon NPN Epitaxial Planar Transistor (Complement to type 2SA1294)

Application : Audio and General Purpose

■Absolute maximum ratings (Ta=25°C)

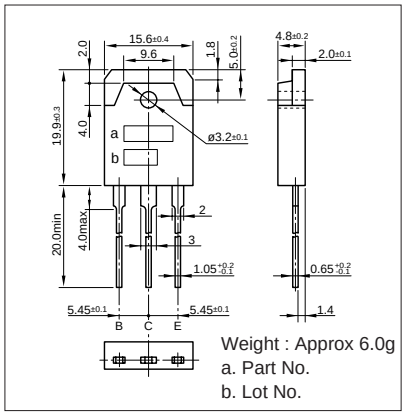
Symbol	Ratings	Unit
V_{CBO}	230	V
V_{CEO}	230	V
V_{EBO}	5	V
I_C	15	A
I_B	4	A
P_C	130(Tc=25°C)	W
Tj	150	°C
Tstg	–55 to +150	°C

■Electrical Characteristics (Ta=25°C)

Symbol	Conditions	Ratings	Unit
I_{CBO}	V_{CB}=230V	100max	μA
I_{EBO}	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
C_{OB}	V_{CB}=10V, f=1MHz	250typ	pF

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

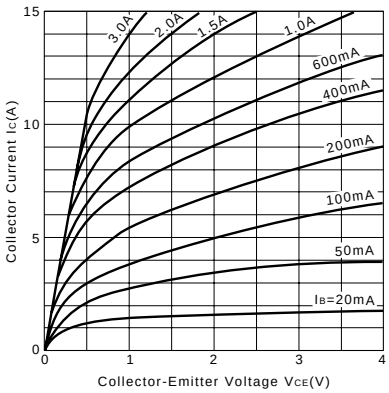
External Dimensions MT-100(TO3P)



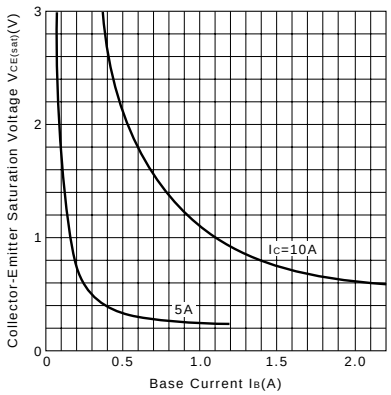
■Typical Switching Characteristics (Common Emitter)

V_{CC} (V)	R_L (Ω)	I_C (A)	V_{BB1} (V)	V_{BB2} (V)	I_{B1} (mA)	I_{B2} (mA)	ton (μs)	tstg (μs)	tf (μs)
60	12	5	10	–5	500	–500	0.30typ	2.40typ	0.50typ

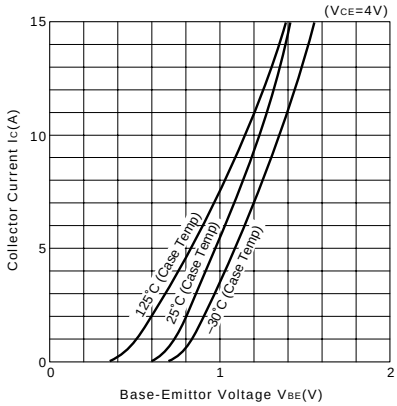
I_C–V_{CE} Characteristics (Typical)



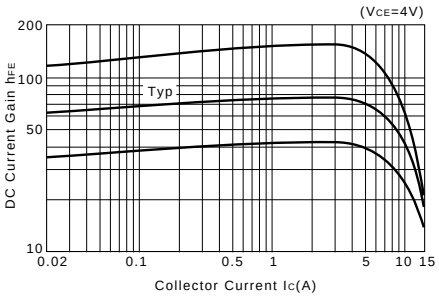
V_{CE}(sat)–I_B Characteristics (Typical)



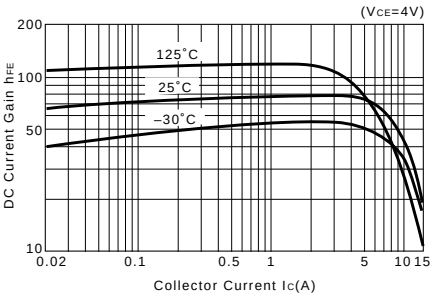
I_C–V_{BE} Temperature Characteristics (Typical)



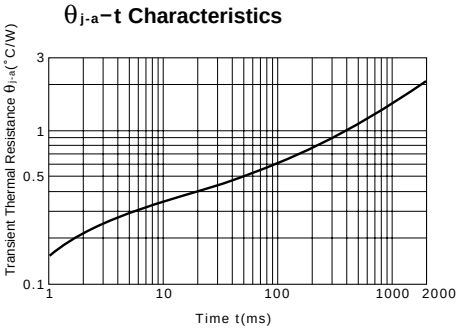
h_{FE}–I_C Characteristics (Typical)



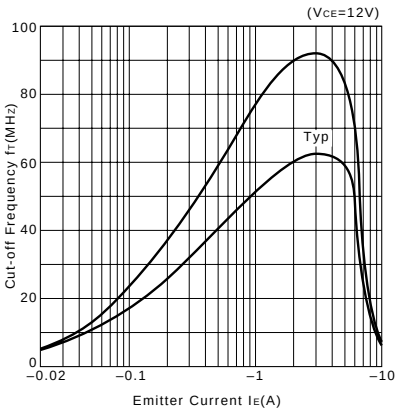
h_{FE}–I_C Temperature Characteristics (Typical)



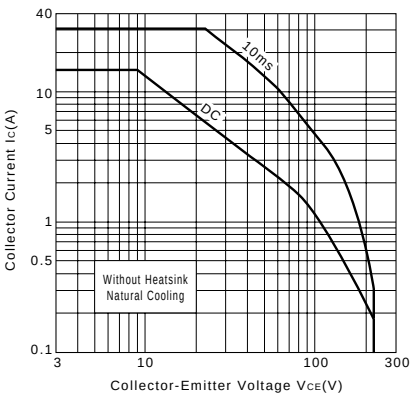
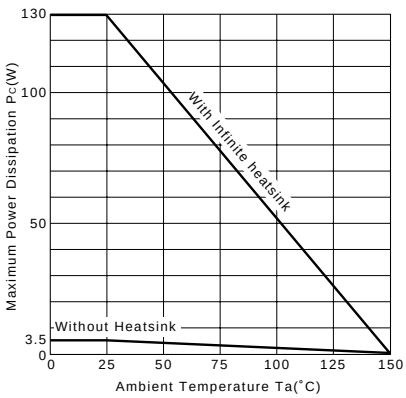
$\theta_{j\text{-}a}$–t Characteristics



f_T–I_E Characteristics (Typical)



Safe Operating Area (Single Pulse)



Pc–Ta Derating