

# LAPT 2SA1386/1386A

Silicon PNP Epitaxial Planar Transistor (Complement to type 2SC3519/A)

Application : Audio and General Purpose

**Absolute maximum ratings** (Ta=25°C)

Symbol	2SA1386	2SA1386A	Unit
V <sub>CBO</sub>	-160	-180	V
V <sub>CEO</sub>	-160	-180	V
V <sub>EBO</sub>	-5		V
I <sub>C</sub>	-15		A
I <sub>B</sub>	-4		A
P <sub>C</sub>	130(T <sub>C</sub> =25°C)		W
T <sub>j</sub>	150		°C
T <sub>stg</sub>	-55 to +150		°C

**Electrical Characteristics** (Ta=25°C)

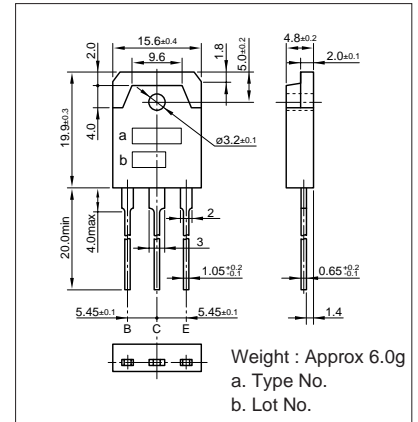
Symbol	Conditions	2SA1386	2SA1386A	Unit
I <sub>CBO</sub>	V <sub>CB</sub> =	-100max	-100max	μA
V <sub>CEO</sub>	I <sub>C</sub> =-25mA	-160min	-180min	V
I <sub>EBO</sub>	V <sub>EB</sub> =-5V		-100max	μA
V <sub>(BR)CEO</sub>	I <sub>C</sub> =-5A, I <sub>B</sub> =-0.5A		-2.0max	V
h <sub>FE</sub>	V <sub>CE</sub> =-4V, I <sub>C</sub> =-5A		50min*	
f <sub>T</sub>	V <sub>CE</sub> =-12V, I <sub>E</sub> =2A		40typ	MHz
COB	V <sub>CB</sub> =-10V, f=1MHz		500typ	pF

\*h<sub>FE</sub> Rank  $\bar{O}$ (50 to 100), P(70 to 140), Y(90 to 180)

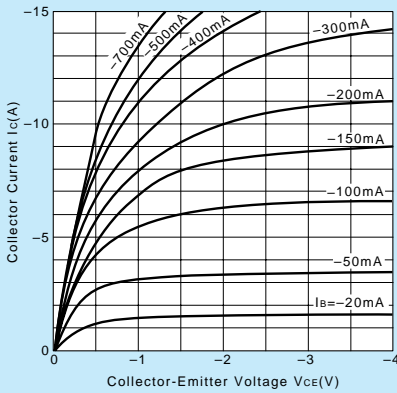
**Typical Switching Characteristics (Common Emitter)**

V <sub>CC</sub> (V)	R <sub>L</sub> (Ω)	I <sub>C</sub> (A)	V <sub>BB1</sub> (V)	V <sub>BB2</sub> (V)	I <sub>B1</sub> (A)	I <sub>B2</sub> (A)	t <sub>on</sub> (μs)	t <sub>stg</sub> (μs)	t <sub>f</sub> (μs)
-40	4	-10	-10	5	-1	1	0.3typ	0.7typ	0.2typ

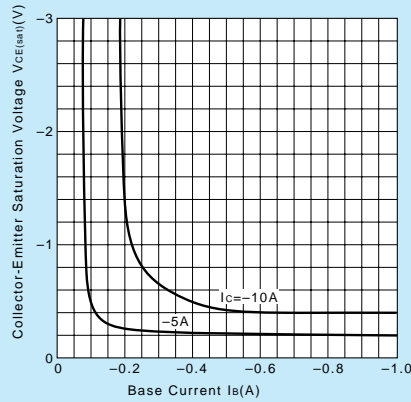
**External Dimensions MT-100(TO3P)**



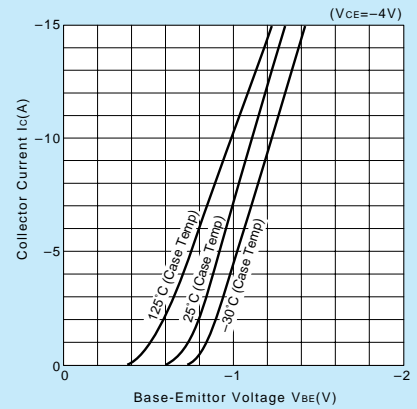
**I<sub>C</sub>-V<sub>CE</sub> Characteristics (Typical)**



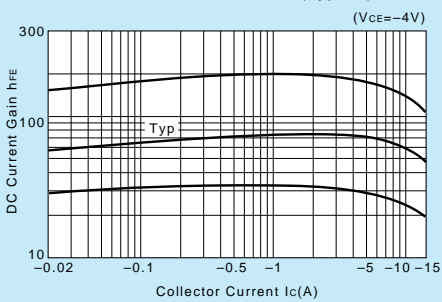
**V<sub>CE(sat)</sub>-I<sub>B</sub> Characteristics (Typical)**



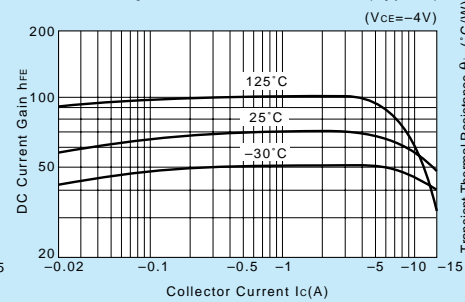
**I<sub>C</sub>-V<sub>BE</sub> Temperature Characteristics (Typical)**



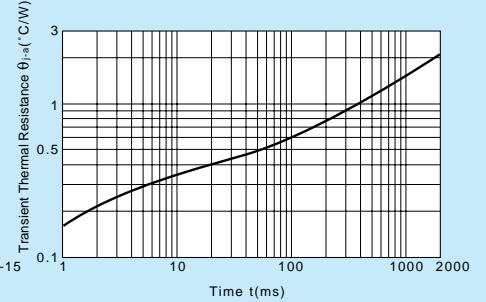
**h<sub>FE</sub>-I<sub>C</sub> Characteristics (Typical)**



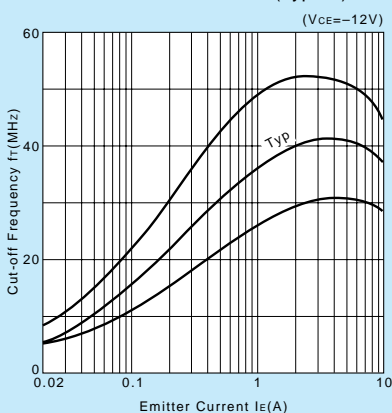
**h<sub>FE</sub>-I<sub>C</sub> Temperature Characteristics (Typical)**



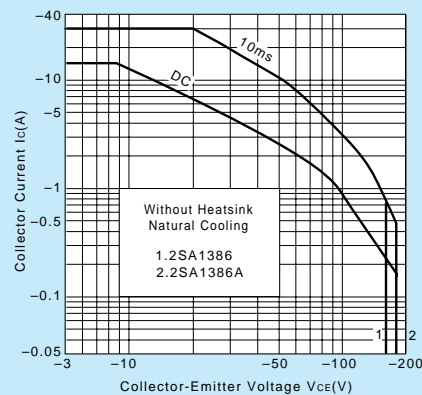
**θ<sub>j-a</sub>-t Characteristics**



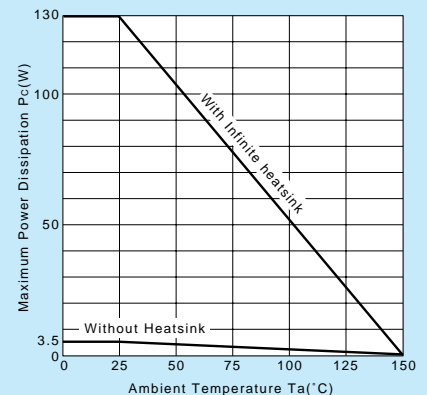
**f<sub>T</sub>-I<sub>E</sub> Characteristics (Typical)**



**Safe Operating Area (Single Pulse)**



**P<sub>C</sub>-T<sub>a</sub> Derating**



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