

LAPT

# 2SC3264

Silicon NPN Epitaxial Planar Transistor (Complement to type 2SA1295)

Application : Audio and General Purpose

■ Absolute maximum ratings (Ta=25°C)

Symbol	Ratings	Unit
V <sub>CB0</sub>	230	V
V <sub>CEO</sub>	230	V
V <sub>EB0</sub>	5	V
I <sub>c</sub>	17	A
I <sub>b</sub>	5	A
P <sub>c</sub>	200(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)

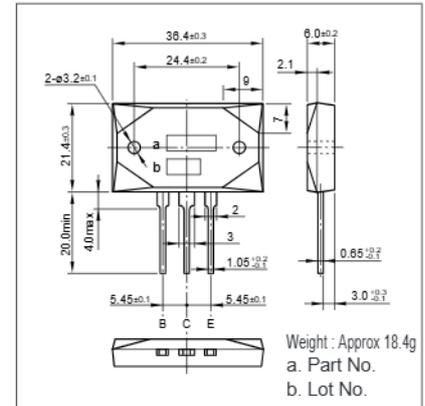
Symbol	Conditions	Ratings	Unit
I <sub>cBO</sub>	V <sub>CB</sub> =230V	100max	αA
I <sub>EB0</sub>	V <sub>EB</sub> =5V	100max	αA
V <sub>(BR)CEO</sub>	I <sub>c</sub> =25mA	230min	V
h <sub>FE</sub>	V <sub>CE</sub> =4V, I <sub>c</sub> =5A	50min*	
V <sub>CE(sat)</sub>	I <sub>c</sub> =5A, I <sub>b</sub> =0.5A	2.0max	V
f <sub>r</sub>	V <sub>CE</sub> =12V, I <sub>E</sub> =-2A	60typ	MHz
C <sub>OB</sub>	V <sub>CB</sub> =10V, f=1MHz	250typ	pF

\*h<sub>FE</sub> Rank O(50 to 100), Y(70 to 140)

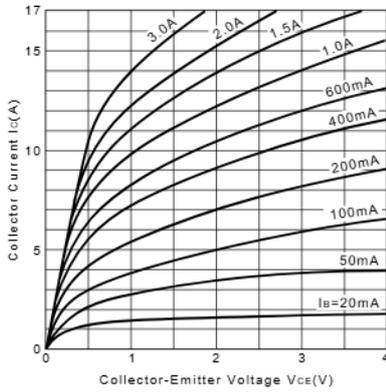
■ Typical Switching Characteristics (Common Emitter)

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> (αs)	t <sub>stg</sub> (αs)	t <sub>f</sub> (αs)
60	12	5	10	-5	0.5	-0.5	0.30typ	2.40typ	0.50typ

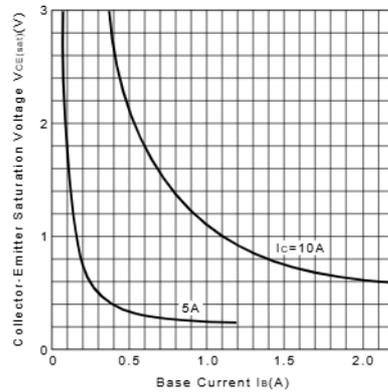
External Dimensions MT-200



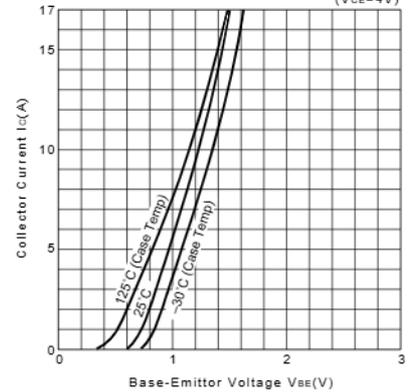
I<sub>c</sub>-V<sub>CE</sub> Characteristics (Typical)



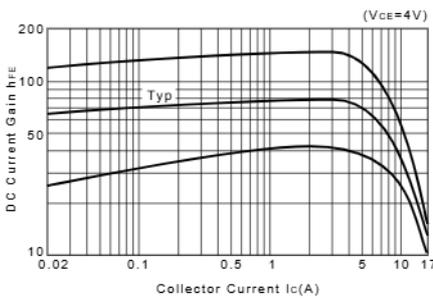
V<sub>CE(sat)</sub>-I<sub>B</sub> Characteristics (Typical)



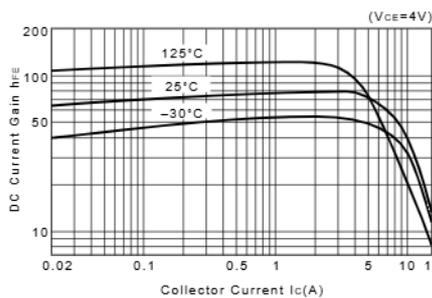
I<sub>c</sub>-V<sub>BE</sub> Temperature Characteristics (Typical)



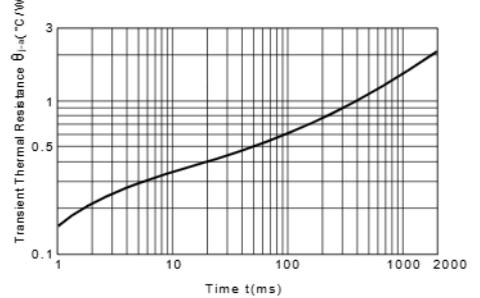
h<sub>FE</sub>-I<sub>c</sub> Characteristics (Typical)



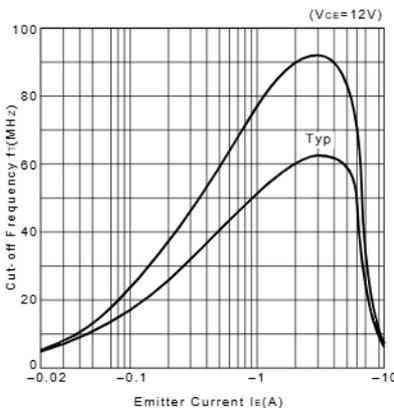
h<sub>FE</sub>-I<sub>c</sub> Temperature Characteristics (Typical)



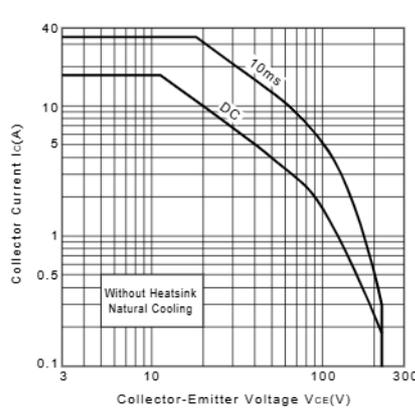
θ<sub>j-a</sub>-t Characteristics



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



Safe Operating Area (Single Pulse)



P<sub>c</sub>-T<sub>a</sub> Derating

