LAPT 2SC3519/3519A

Silicon NPN Epitaxial Planar Transistor (Complement to type 2SA1386/A)

Application : Audio and General Purpose

■Absolute maximum ratings (Ta=25°C)

Symbol	2SC3519	2SC3519A	Unit
V_{CBO}	160	180	V
V_{CEO}	160	180	V
V_{EBO}	5		V
I_C	15		A
I_B	4		A
P_C	130(Tc=25°C)		W
T_j	150		°C
T_{stg}	−55 to +150		°C

■Electrical Characteristics (Ta=25°C)

Symbol	Conditions	2SC3519	2SC3519A	Unit
I_{CBO}		100max		μA
	$V_{CB}=$	160	180	V
I_{EBO}	$V_{EB}=5V$	100max		μA
$V_{(BR)CEO}$	$I_C=25mA$	160min	180min	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	$V_{CE}=12V$, $I_E=-2A$	50typ		MHz
C_{OB}	$V_{CB}=10V$, f=1MHz	250typ		pF

∗h_{FE} Rank $\overline{O}$(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_{BB1} (V)	V_{BB2} (V)	I_{B1} (A)	I_{B2} (A)	ton (μs)	tstg (μs)	tf (μs)
40	4	10	10	−5	1	−1	0.2typ	1.3typ	0.45typ

External Dimensions MT-100(TO3P)

Weight : Approx 6.0g
a. Type No.
b. Lot No.
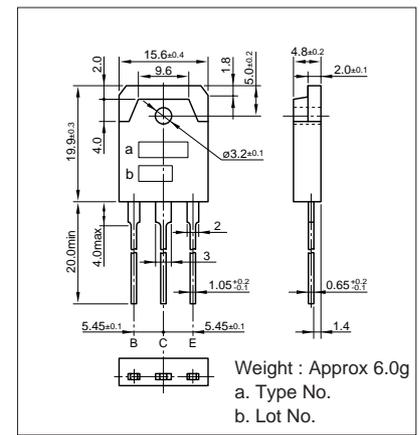
## I_C−V_{CE} Characteristics (Typical)
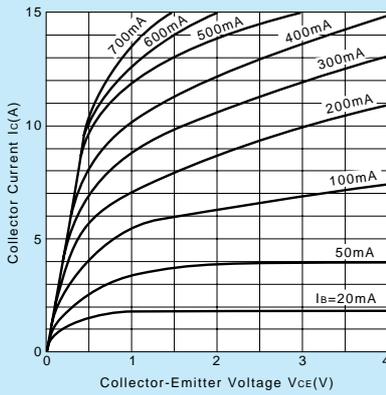
$V_{CE}(sat)$−I_B Characteristics (Typical)
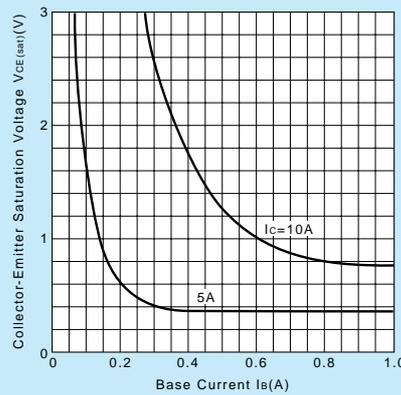

I_C−V_{BE} Temperature Characteristics (Typical)
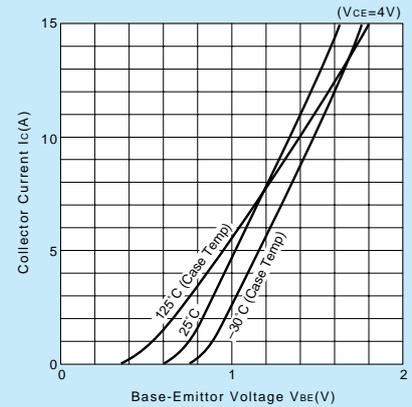

h_{FE}−I_C Characteristics (Typical)
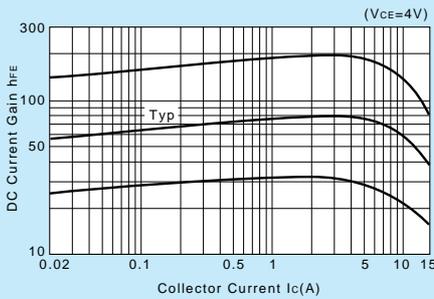

h_{FE}−I_C Temperature Characteristics (Typical)
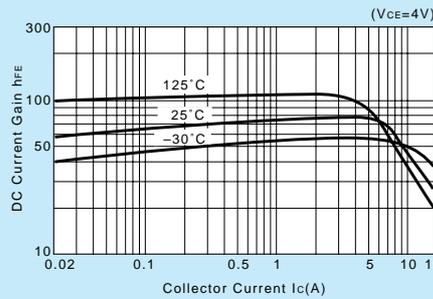
$θ_{j-a}$−t Characteristics
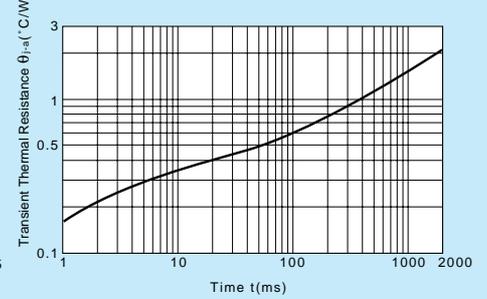
f_T−I_E Characteristics (Typical)
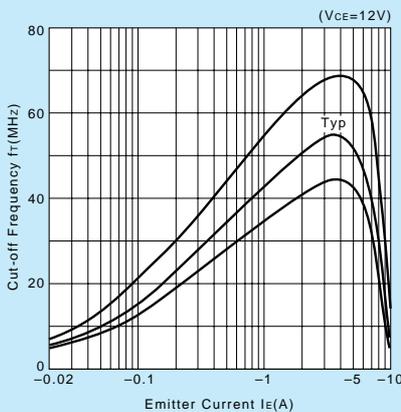
Safe Operating Area (Single Pulse)

Without Heatsink
Natural Cooling
1.2SC3519
2.2SC3519A
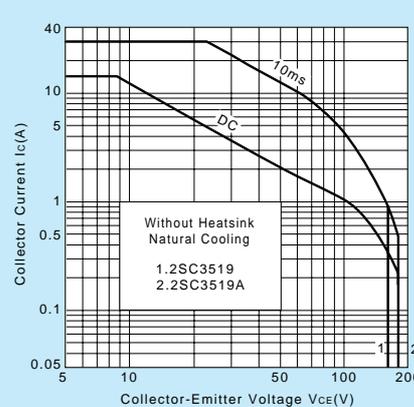
Pc−Ta Derating
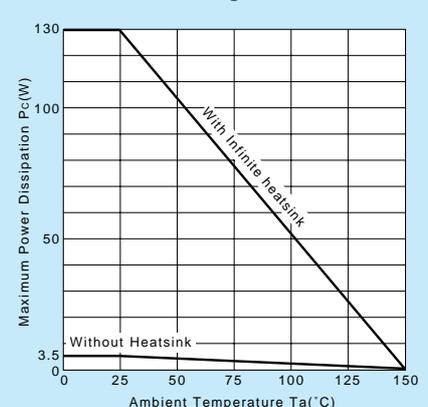
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