

Power Transistor Array STA335A

Absolute Maximum Ratings (Ta=25°C)

Symbol	Ratings	Unit
VCBO	35±5	V
VCEO	35±5	V
VEBO	6	V
IC	3	A
IB	1	A
PT	2.5 (Ta=25°C) 12 (Tc=25°C)	W
Tj	150	°C
Tstg	-55 to +150	°C

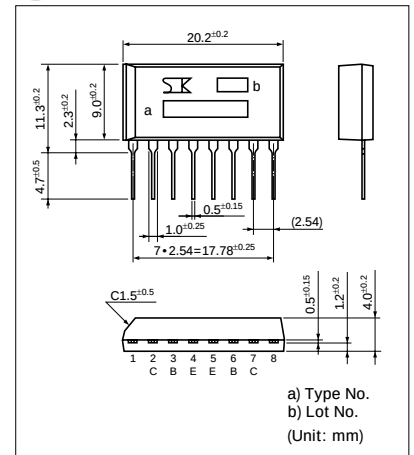
Electrical Characteristics (Ta=25°C)

Symbol	Test Conditions	Ratings	Unit
ICBO	V _{CB} = 30V	10max	μA
IEBO	V _{EB} = 6V	10max	μA
VCEO	I _C = 25mA	35±5	V
hFE	V _{CE} = 4V, I _C = 0.5A	500min	
VCE(sat)	I _C = 1A, I _B = 5mA	0.5max	V
Es/b	L = 10mH, single pulse	150min	mJ

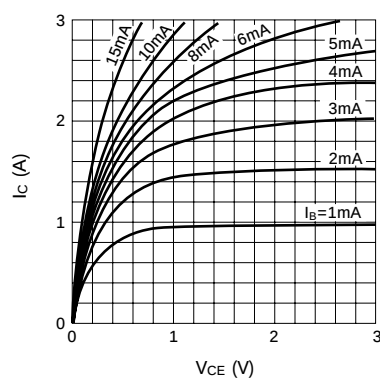
Typical Switching Characteristics

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)
12	12	1	10	-5	5	5	1.3	4.7	1.2

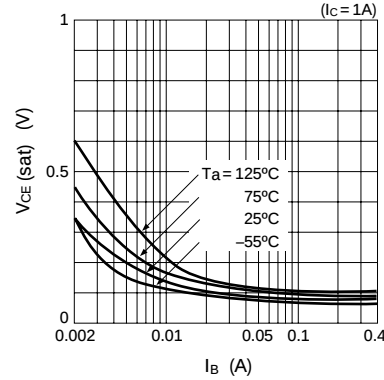
External Dimensions STA3 (LF400A)



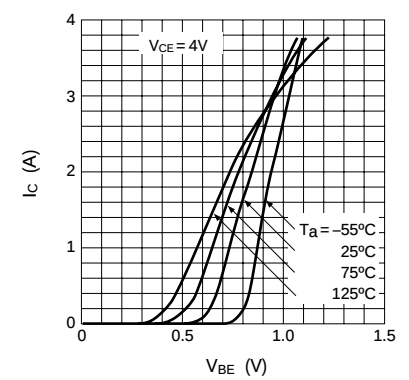
IC—VCE Characteristics (typ.)



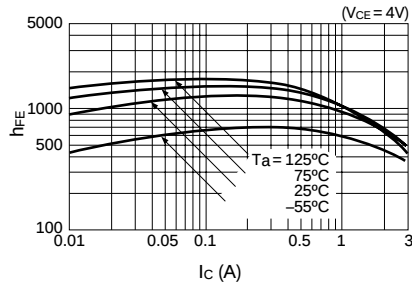
VCE(sat)—IB Temperature Characteristics



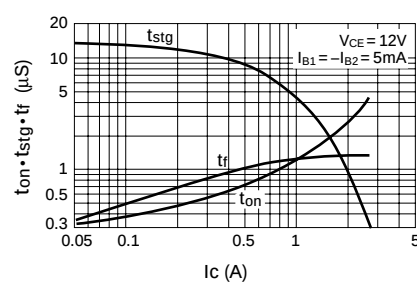
IC—VBE Temperature Characteristics (typ.)



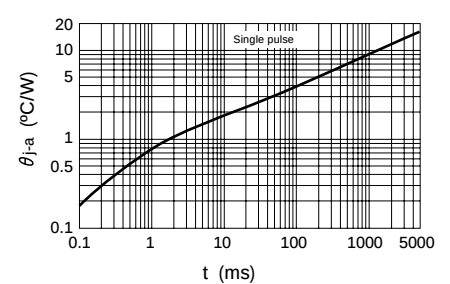
hFE—IC Temperature Characteristics (typ.)



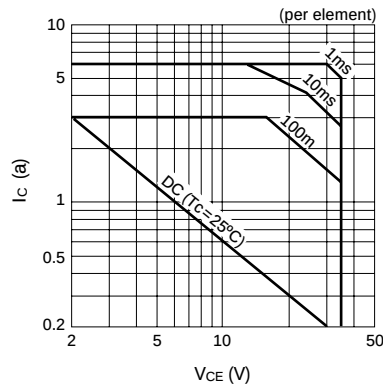
ton•tstg•tf—IC Characteristics (typ.)



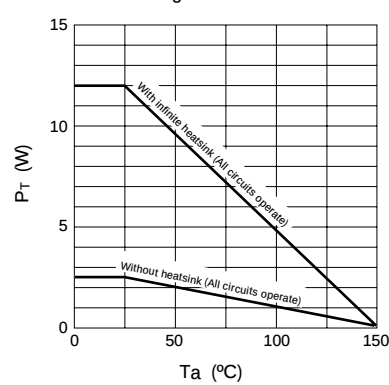
θJA—t Characteristics



Safe Operating Area (single pulse)



PT—Ta Derating



Equivalent Circuit Diagram

