Surface-mount Power Transistor Array SDA04

Absolute Maximum Ratings (Ta=25ºC)

Symbol	Ratings	Unit
V_{CBO}	–60	V
V_{CEO}	–60	V
V_{EBO}	–6	V
I_C	–6 (pulse –12)	A
I_B	–1	A
P_T	2.5 (No Fin)	W
Tj	150	ºC
Tstg	–55 to +150	ºC

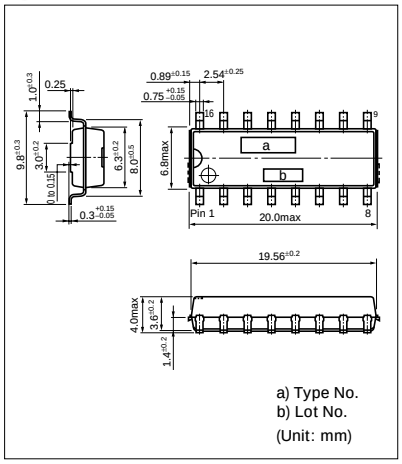
Electrical Characteristics (Ta=25ºC)

Symbol	Test Conditions	Ratings	Unit
I_{CBO}	V_{CB} = –60V	–10max	µA
I_{EBO}	V_{EB} = –6V	–10max	µA
V_{CEO}	I_C = –25mA	–60min	V
h_{FE}	V_{CE} = –4V, I_C = –2A	100min	
V_{CE} (sat)	I_C = –2A, I_B = –0.1A	–0.4max	V

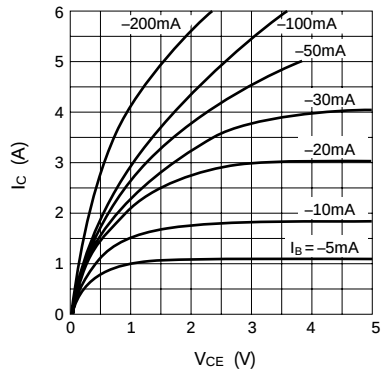
Typical Switching Characteristics

V_{CC} (V)	R_L (Ω)	I_C (A)	V_{BB1} (V)	V_{BB2} (V)	I_{B1} (mA)	I_{B2} (mA)	t_{on} (µs)	t_{stg} (µs)	t_f (µs)
12	12	1	10	–5	–50	50	0.4	1.75	0.22

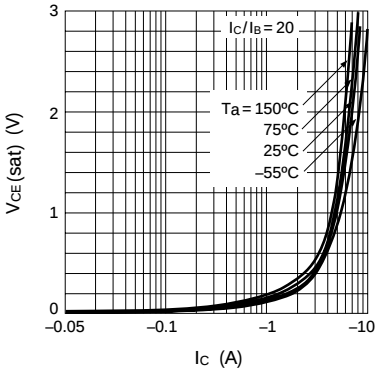
External Dimensions SMD-16A



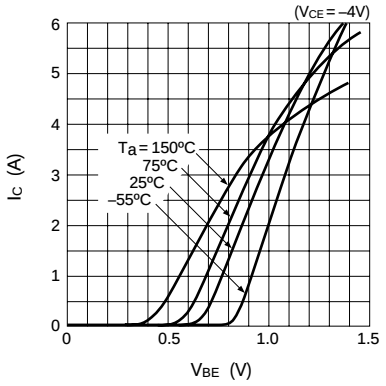
■ I_C — V_{CE} Characteristics



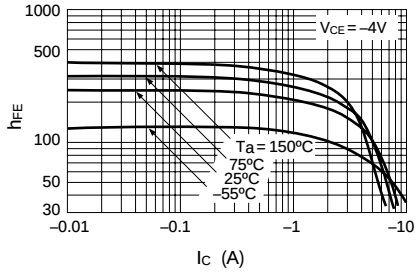
■ V_{CE} (sat) — I_C Temperature Characteristics (typ.)



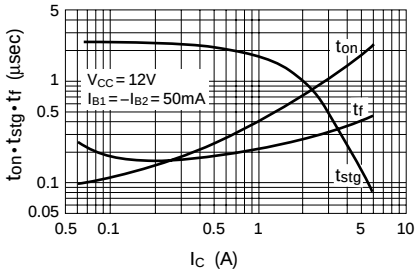
■ I_C — V_{BE} Temperature Characteristics (typ.)



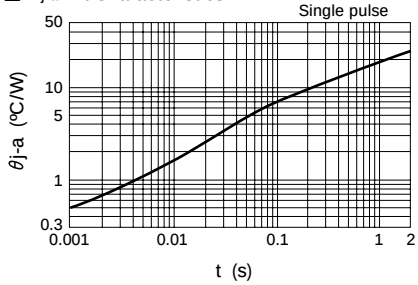
■ h_{FE} — I_C Temperature Characteristics



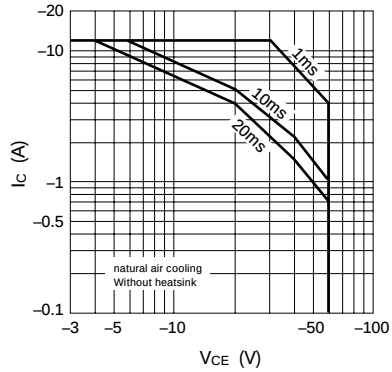
■ $t_{on} \cdot t_{stg} \cdot t_f$ — I_C Characteristics



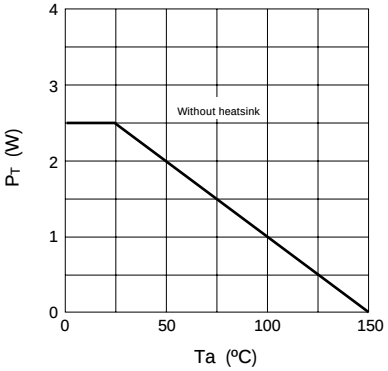
■ $\theta_{j\text{-}a}$ — t Characteristics Ta = 25ºC Single pulse



■ Safe Operating Area (single pulse)



■ P_T — Ta Derating



Equivalent Circuit Diagram

