

Surface-mount Power Transistor Array SDA03

Absolute Maximum Ratings (Ta=25°C)

Symbol	Ratings	Unit
V _{CB0}	-60	V
V _{CE0}	-60	V
V _{EB0}	-6	V
I _C	-6 (pulse -12)	A
I _B	-1	A
P _T	3 (No Fin)	W
T _J	150	°C
T _{stg}	-55 to +150	°C

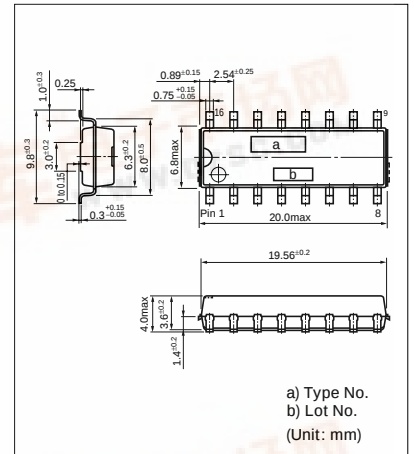
Electrical Characteristics (Ta=25°C)

Symbol	Test Conditions	Ratings	Unit
I _{CB0}	V _{CB} = -60V	-10max	μA
I _{EB0}	V _{EB} = -6V	-10max	μA
V _{CE0}	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

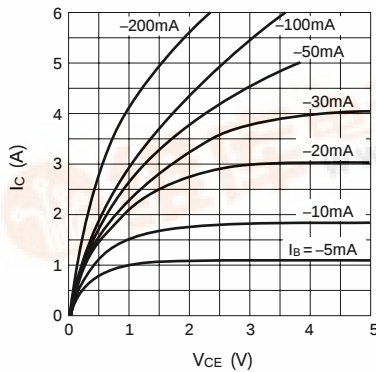
Typical Switching Characteristics

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

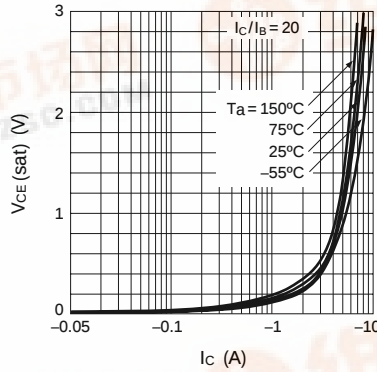
External Dimensions SMD-16A



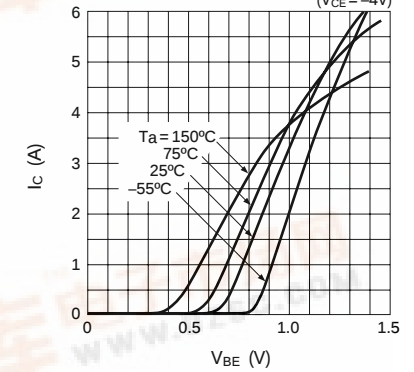
I_C — V_{CE} Characteristics



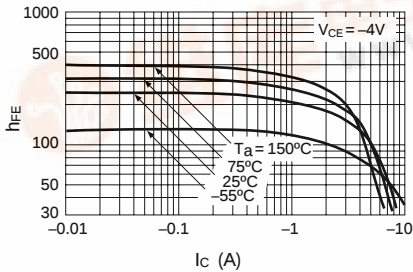
V_{CE(sat)} — I_C Temperature Characteristics (typ.)



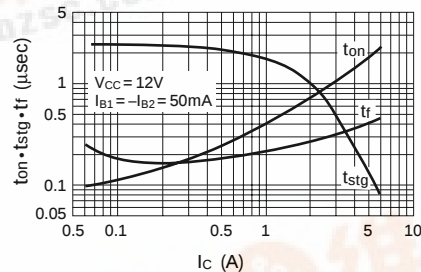
I_C — V_{BE} Temperature Characteristics (typ.)



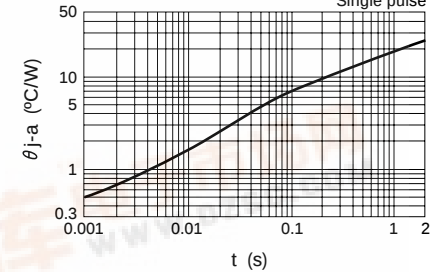
h_{FE} — I_C Temperature Characteristics



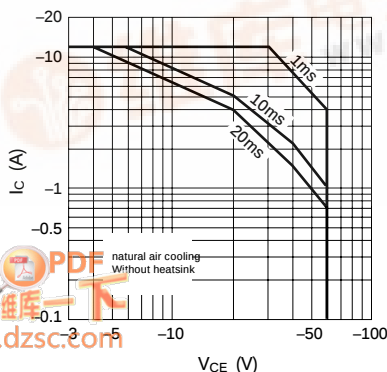
t_{on} · t_{stg} · t_f — I_C Characteristics



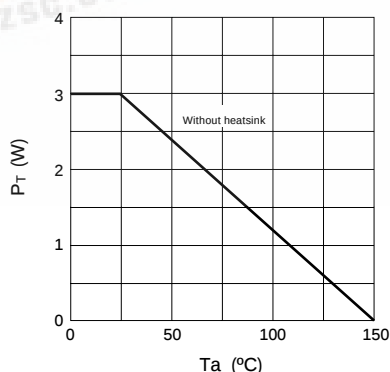
θ_{J-a} — t Characteristics



Safe Operating Area (single pulse)



P_T — Ta Derating



Equivalent Circuit Diagram

