

Surface-mount Power Transistor Array SDC09

Absolute Maximum Ratings (Ta=25°C)

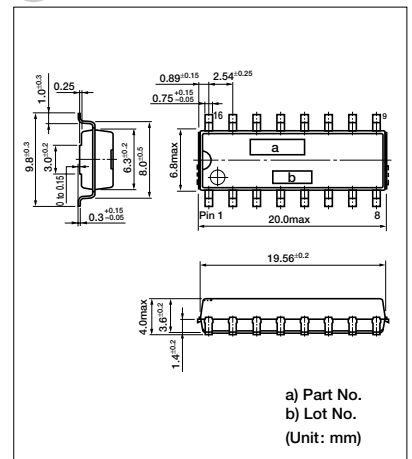
Symbol	Ratings	Unit
V _{CB0}	65±5	V
V _{CE0}	65±5	V
V _{EBO}	6	V
I _C	6 (pulse 10*)	A
I _B	1	A
P _T	2.8	W
T _J	150	°C
T _{stg}	-55 to +150	°C

* P_w ≤ 100μs, Duty ≤ 1%

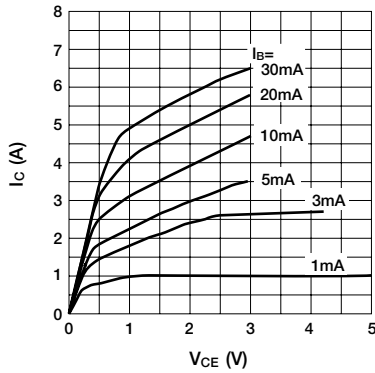
Electrical Characteristics (Ta=25°C)

Symbol	Test Conditions	Ratings	Unit
I _{CB0}	V _{CB} = 60V	10max	μA
I _{EBO}	V _{EB} = 6V	10max	μA
V _{CE0}	I _C = 50mA	60 to 70	V
h _{FE}	V _{CE} = 1V, I _C = 1A	400 to 1500	
V _{CE(sat)}	I _C = 1.5A, I _B = 15mA	0.15max	V
V _{FEC}	I _{FEC} = 6A	1.5max	V
Es/b	L = 10mH, single pulse	80min	mJ

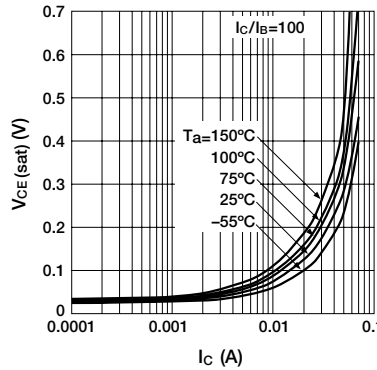
External Dimensions SMD-16A



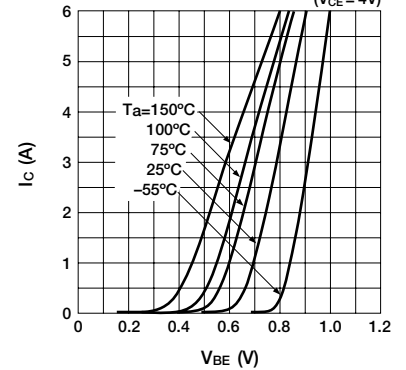
I_C — V_{CE} Characteristics



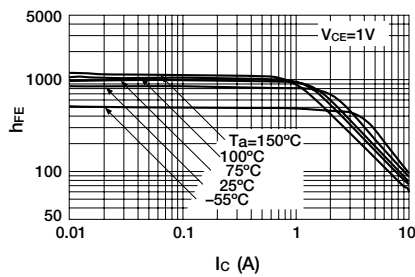
V_{CE(sat)} — I_C Temperature Characteristics (typ.)



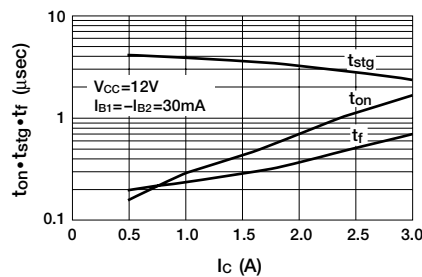
I_C — V_{BE} Temperature Characteristics (typ.)



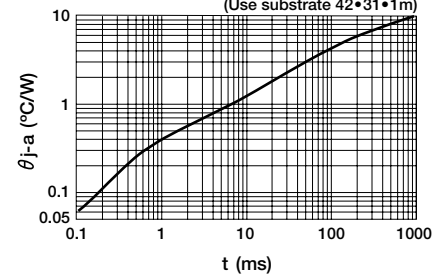
h_{FE} — I_C Temperature Characteristics



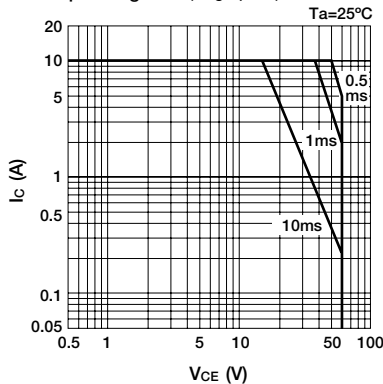
ton • t_{stg} • t_{fr} — I_C Characteristics



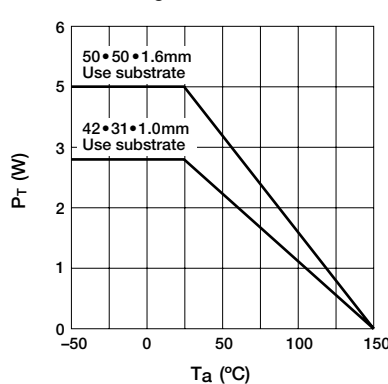
θ_{J-a} — t Characteristics (Single pulse)



Safe Operating Area (Single pulse)



P_T — Ta Derating



Equivalent Circuit Diagram

