

Surface-mount Power Transistor Array SPF0001

Absolute Maximum Ratings (Ta=25°C)

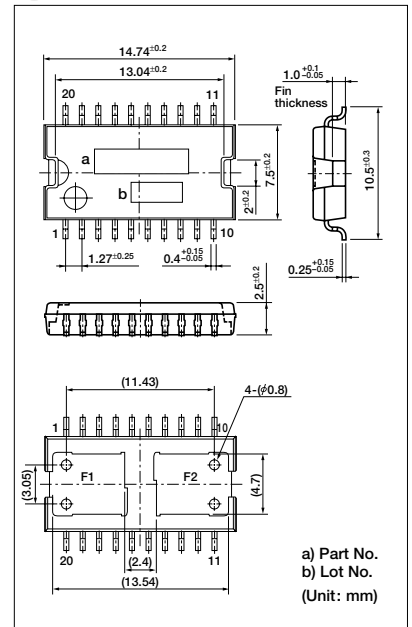
Symbol	Ratings	Unit
V _{CB0}	115±10	V
V _{CE0}	115±10	V
V _{EB0}	6	V
I _c	±6 (pulse ±10)	A
I _B	1	A
P _T *	2.5 (Ta=25°C)	W
T _J	150	°C
T _{stg}	-55 to +150	°C

* Use glass epoxy substrate (FR4) 70mm×100mm×1.6mm

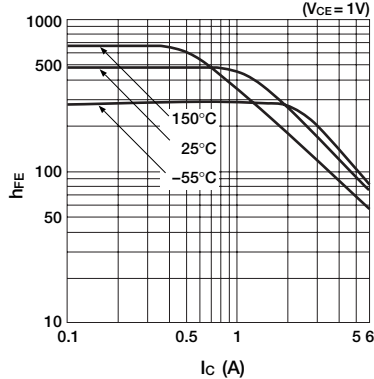
Electrical Characteristics (Ta=25°C)

Symbol	Test Conditions	Ratings			Unit
		min	typ	max	
I _{CB0}	V _{CB} =105V			10	μA
I _{EB0}	V _{EB} =6V			10	μA
V _{CE0}	I _c =50mA	105	115	125	V
h _{FE}	V _{CE} =1V, I _c =1A	400	800	1500	
V _{CE(sat)}	I _c =1.2A, I _B =12mA		0.08	0.12	V
V _{FEC}	I _{FEC} =6A		1.25	1.5	V
Es/b	L=10mH	45			mJ

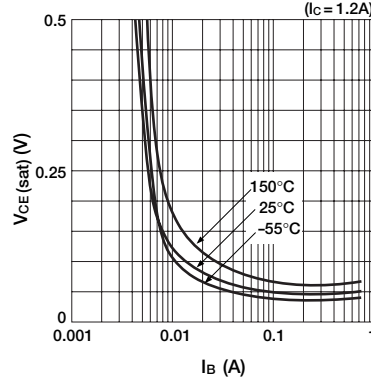
External Dimensions SPF 20pin



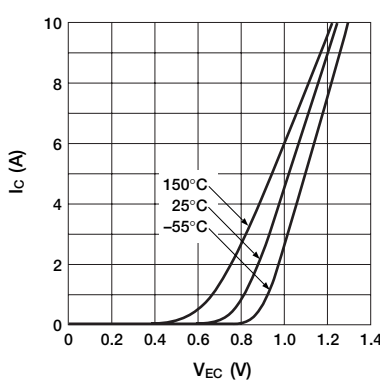
■ h_{FE}—I_c Temperature Characteristics (typ.) (V_{CE}=1V)



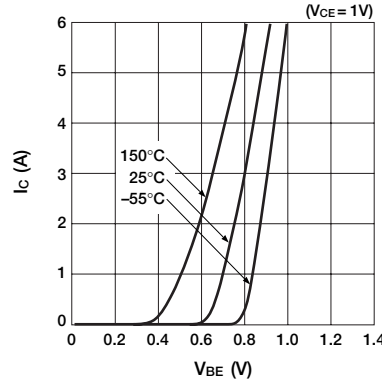
■ V_{CE(sat)}—I_B Temperature Characteristics (typ.) (I_c=1.2A)



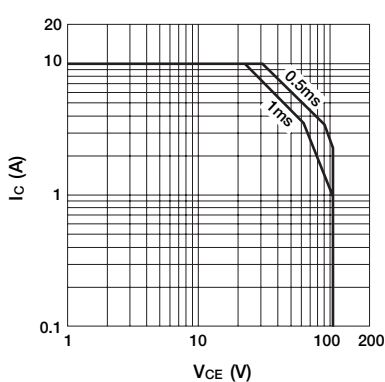
■ I_c—V_{EC} Temperature Characteristics (typ.)



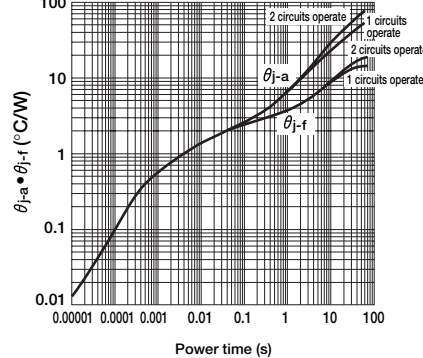
■ I_c—V_{BE} Temperature Characteristics (typ.) (V_{CE}=1V)



■ Safe Operating Area (single pulse)



■ Transient thermal resistance characteristics (82×36×1mm at the time of mounting the recommended pattern of the glass epoxy board)



Equivalent Circuit Diagram

