

Surface-mount Power Transistor Array SPF0001

Absolute Maximum Ratings (Ta=25°C)

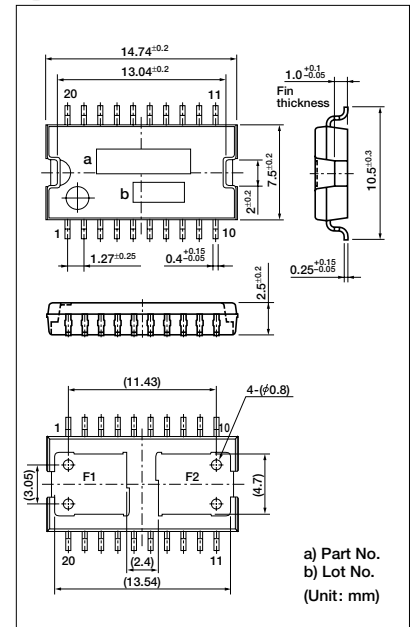
| Symbol | Ratings | Unit |
|------------------|----------------|------|
| V _{CB0} | 115±10 | V |
| V _{CE0} | 115±10 | V |
| V _{EB0} | 6 | V |
| I _c | ±6 (pulse ±10) | A |
| I _B | 1 | A |
| P _T * | 2.5 (Ta=25°C) | W |
| T _J | 150 | °C |
| T _{stg} | -55 to +150 | °C |

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

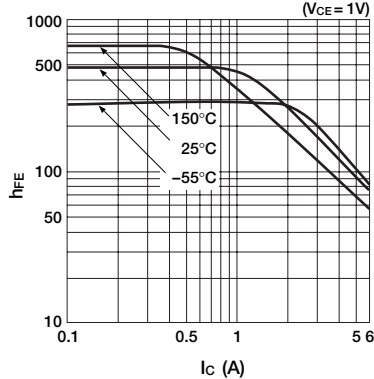
Electrical Characteristics (Ta=25°C)

| 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 |

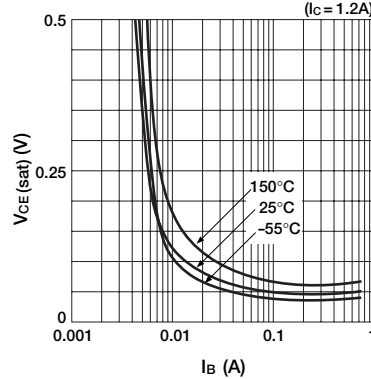
External Dimensions SPF 20pin



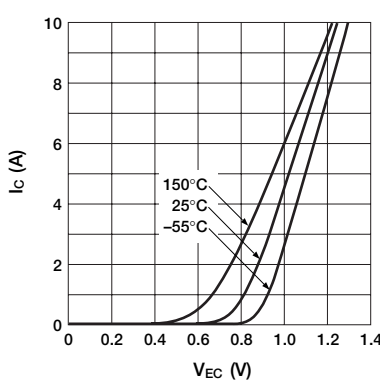
■ h_{FE}—I_c Temperature Characteristics (typ.) (V_{CE}=1V)



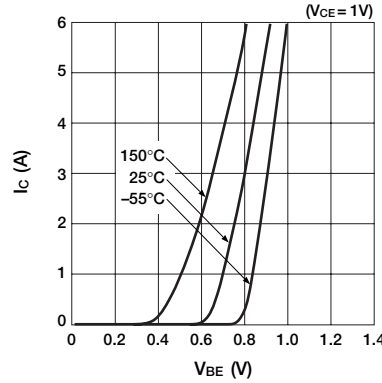
■ V_{CE(sat)}—I_B Temperature Characteristics (typ.) (I_c=1.2A)



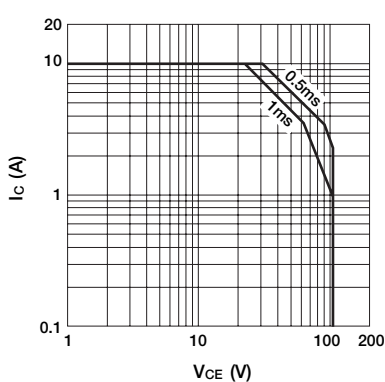
■ I_c—V_{EC} Temperature Characteristics (typ.)



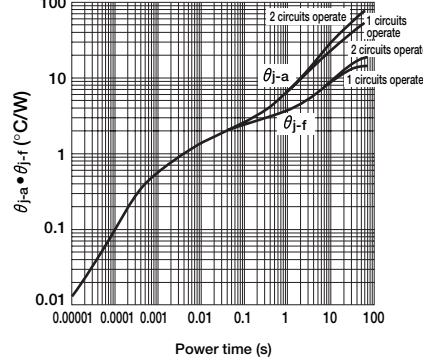
■ I_c—V_{BE} Temperature Characteristics (typ.) (V_{CE}=1V)



■ 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

