

# 2SA1725

シリコンPNPエピタキシャルプレーナ型トランジスタ (2SC4511とコンプリメンタリ)

用途：オーディオ、一般用

絶対最大定格 (Ta = 25 )

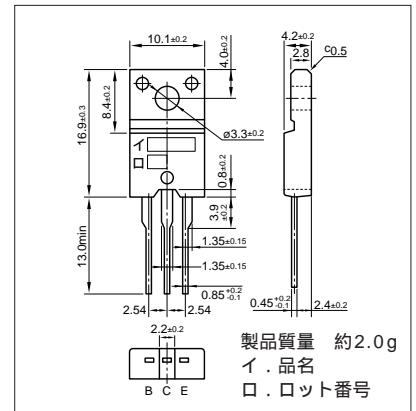
| 記号   | 規格値          | 単位 |
|------|--------------|----|
| VcBO | - 80         | V  |
| VCEO | - 80         | V  |
| VEBO | - 6          | V  |
| Ic   | - 6          | A  |
| Ib   | - 3          | A  |
| Pc   | 30(Tc = 25 ) | W  |
| Tj   | 150          |    |
| Tstg | - 55 ~ + 150 |    |

電気的特性 (Ta = 25 )

| 記号       | 試験条件                   | 規格値      | 単位  |
|----------|------------------------|----------|-----|
| IcBO     | VcB = - 80V            | - 10max  | μA  |
| IEBO     | VEB = - 6V             | - 10max  | μA  |
| V(BR)CEO | Ic = - 25mA            | - 80min  | V   |
| hFE      | VCE = - 4V, Ic = - 2A  | 50min    |     |
| VCE(sat) | Ic = - 2A, Ib = - 0.2A | - 0.5max | V   |
| fr       | VCE = - 12V, IE = 0.5A | 20typ    | MHz |
| COB      | VcB = - 10V, f = 1MHz  | 150typ   | pF  |

ランク O(50 ~ 100), P(70 ~ 140), Y(90 ~ 180)

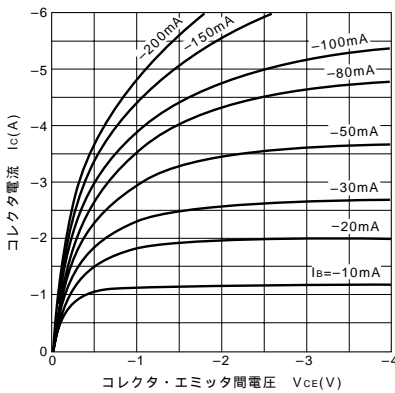
外形図 FM20 (TO220F)



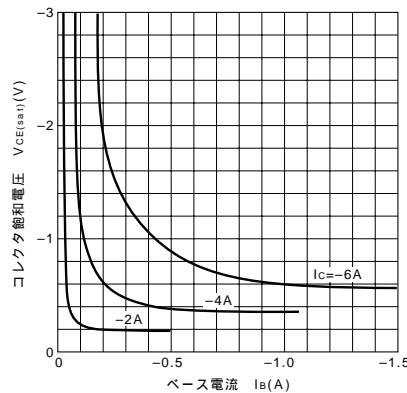
代表的スイッチング特性 (エミッタ接地)

| Vcc (V) | RL (Ω) | Ic (A) | VBB1 (V) | VBB2 (V) | Ib1 (A) | Ib2 (A) | ton (μs) | tstg (μs) | tf (μs) |
|---------|--------|--------|----------|----------|---------|---------|----------|-----------|---------|
| -30     | 10     | -3     | -10      | 5        | -0.3    | 0.3     | 0.18typ  | 1.10typ   | 0.21typ |

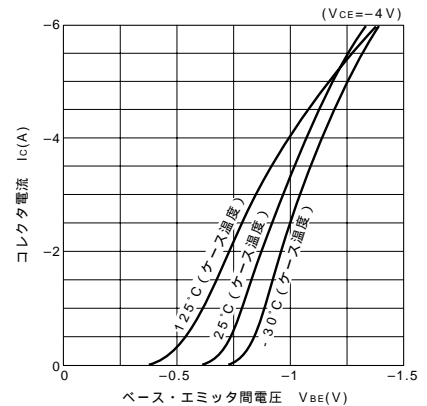
Ic-VCE特性 (代表例)



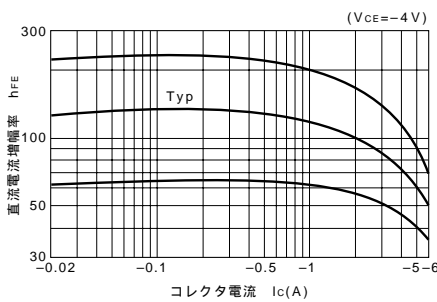
VCE(sat)-Ib特性 (代表例)



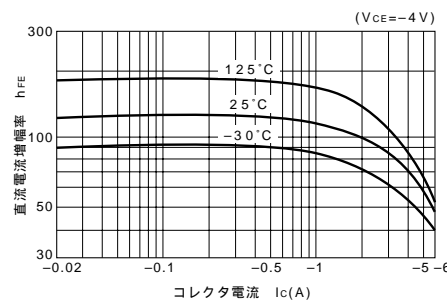
Ic-VBE温度特性 (代表例)



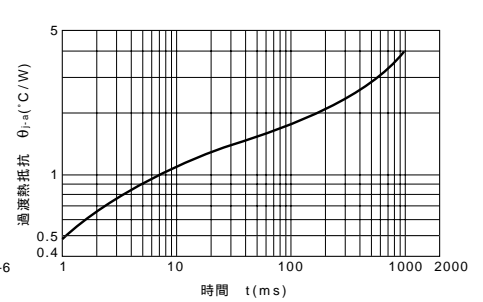
hFE-Ic特性 (代表例)



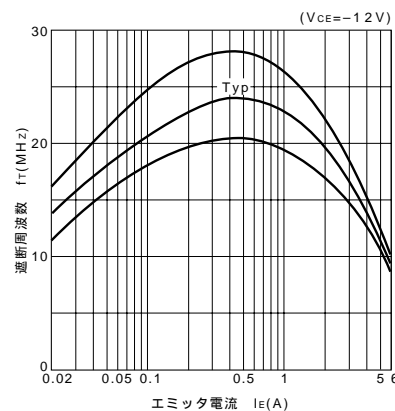
hFE-Ic温度特性 (代表例)



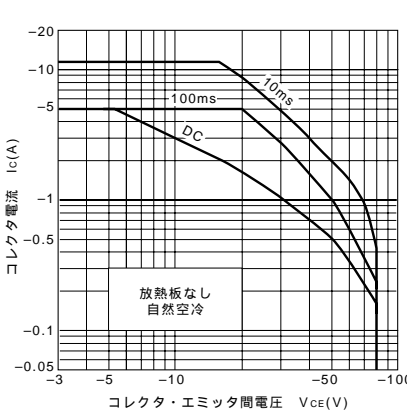
θj-a-t特性



fT-IE特性 (代表例)



ASO曲線 (単発パルス)



Pc-Ta定格

