



2SA2048 (3CG2048)

硅 PNP 半导体三极管/SILICON PNP TRANSISTOR

用途:小信号低频放大,高速开关。

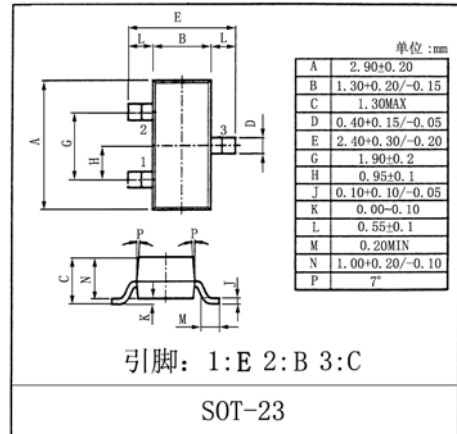
Purpose: Small signal low frequency amplifier, high speed switching.

特点: 开关速度快, 饱和电压低, 与 2SC5730 (3DG5730) 互补。

Features: High speed switching, low saturation voltage, complements the 2SC5730 (3DG5730).

极限参数/Absolute maximum ratings(Ta=25°C)

| 参数符号 Symbol | 数值 Rating | 单位 Unit |
|------------------|--------------|------------|
| V _{CB0} | -30 | V |
| V _{CE0} | -30 | V |
| V _{EBO} | -6.0 | V |
| I _C | -1.0 | A |
| I _{CP} | -2.0 | A |
| P _C | 500 | mW |
| T _j | 150 | °C |
| T _{stg} | -55~150 | °C |



电性能参数/Electrical characteristics(Ta=25°C)

| 参数符号 Symbol | 测试条件 Test condition | 数值 Rating | | | 单位 Unit |
|----------------------|--|--------------|------------|------------|------------|
| | | 最小值 Min | 典型值 Typ | 最大值 Max | |
| V _{CB0} | I _C =-100 μA I _E =0 | -30 | | | V |
| V _{CE0} | I _C =-1.0mA I _B =0 | -30 | | | V |
| V _{EBO} | I _E =-100 μA I _C =0 | -6.0 | | | V |
| I _{CB0} | V _{CB} =-20V I _E =0 | | | -1.0 | μA |
| I _{EBO} | V _{EB} =-4.0V I _C =0 | | | -1.0 | μA |
| h _{FE} | V _{CE} =-2.0V I _C =-100mA | 120 | | 390 | |
| V _{CE(sat)} | I _C =-500mA I _B =-50mA | | -0.15 | -0.3 | V |
| f _T | V _{CE} =-10V I _C =-100mA f=10MHz | | 350 | | MHz |
| C _{ob} | V _{CB} =-10V I _E =0 f=1.0MHz | | 10 | | pF |
| t _{on} | I _C =-1.0A -I _{B1} =I _{B2} =100mA V _{CC} =-25V | | 30 | | ns |
| t _{off} | | | 100 | | |
| t _{stg} | | | 20 | | |

h_{FE} 分档、印章/h_{FE} Classifications、Marking:

| | | |
|--|---------|---------|
| h _{FE} 分档/h _{FE} Classifications | Q | R |
| h _{FE} 范围/h _{FE} Range | 120~270 | 180~390 |
| 印章/Marking | HULQ | HULR |

