

SURFACE MOUNT PNP SILICON TRANSISTOR



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMPT2907A type is a PNP silicon transistor manufactured by the epitaxial planar process, epoxy molded in a surface mount package, designed for small signal general purpose and switching applications.

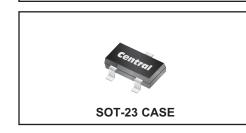
MARKING CODE: C2F

| MAXIMUM RATINGS: (T _A =25°C) | SYMBOL | | UNITS |
|--|-----------------------------------|-------------|-------|
| Collector-Base Voltage | V _{CBO} | 60 | V |
| Collector-Emitter Voltage | V _{CEO} | 60 | V |
| Emitter-Base Voltage | V _{EBO} | 5.0 | V |
| Continuous Collector Current | ۱ _C | 600 | mA |
| Power Dissipation | PD | 350 | mW |
| Operating and Storage Junction Temperature | T _J , T _{stg} | -65 to +150 | °C |
| Thermal Resistance | Θ_{JA} | 357 | °C/W |

ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted)

| SYMBOL | TEST CONDITIONS | MIN | MAX | UNITS |
|----------------------|--|-----|-----|-------|
| ICBO | V _{CB} =50V | | 10 | nA |
| ICBO | V _{CB} =50V, T _A =125°C | | 10 | μA |
| ICEV | V _{CE} =30V, V _{EB} =0.5V | | 50 | nA |
| BVCBO | Ι _C =10μΑ | 60 | | V |
| BVCEO | I _C =10mA | 60 | | V |
| BVEBO | I _E =10μA | 5.0 | | V |
| V _{CE(SAT)} | I _C =150mA, I _B =15mA | | 0.4 | V |
| V _{CE(SAT)} | I _C =500mA, I _B =50mA | | 1.6 | V |
| V _{BE(SAT)} | I _C =150mA, I _B =15mA | | 1.3 | V |
| V _{BE(SAT)} | I _C =500mA, I _B =50mA | | 2.6 | V |
| h _{FE} | V _{CE} =10V, I _C =0.1mA | 75 | | |
| h _{FE} | V _{CE} =10V, I _C =1.0mA | 100 | | |
| h _{FE} | V _{CE} =10V, I _C =10mA | 100 | | |
| h _{FE} | V _{CE} =10V, I _C =150mA | 100 | 300 | |
| h _{FE} | V _{CE} =10V, I _C =500mA | 50 | | |
| fT | V_{CE} =20V, I _C =50mA, f=100MHz | 200 | | MHz |
| Cob | V _{CB} =10V, I _E =0, f=1.0MHz | | 8.0 | pF |
| Cib | V _{BE} =2.0V, I _C =0, f=1.0MHz | | 30 | pF |

R5 (1-February 2010)





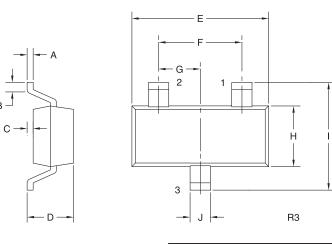
CMPT2907A

SURFACE MOUNT PNP SILICON TRANSISTOR

В

| ELECTRIC | CAL CHARACTERISTICS - Continued: (T _A =25°C unless ot | herwise noted) | |
|----------------|--|----------------|-------|
| SYMBOL | TEST CONDITIONS | MAX | UNITS |
| ton | V_{CC} =30V, V_{BE} =0.5V, I_{C} =150mA, I_{B1} =15mA | 45 | ns |
| ^t d | V_{CC} =30V, V_{BE} =0.5V, I_{C} =150mA, I_{B1} =15mA | 10 | ns |
| t _r | V_{CC} =30V, V_{BE} =0.5V, I_{C} =150mA, I_{B1} =15mA | 40 | ns |
| toff | V _{CC} =6.0V, I _C =150mA, I _{B1} =I _{B2} =15mA | 100 | ns |
| t _s | V _{CC} =6.0V, I _C =150mA, I _{B1} =I _{B2} =15mA | 80 | ns |
| t _f | V _{CC} =6.0V, I _C =150mA, I _{B1} =I _{B2} =15mA | 30 | ns |

SOT-23 CASE - MECHANICAL OUTLINE



| LE | AD CODE: |
|----|-----------|
| 1) | Base |
| 2) | Emitter |
| 3) | Collector |

MARKING CODE: C2F

| DIMENSIONS | | | | |
|------------------|--------|-------|-------------|------|
| | INCHES | | MILLIMETERS | |
| SYMBOL | MIN | MAX | MIN | MAX |
| Α | 0.003 | 0.007 | 0.08 | 0.18 |
| В | 0.006 | - | 0.15 | - |
| С | - | 0.005 | - | 0.13 |
| D | 0.035 | 0.043 | 0.89 | 1.09 |
| E | 0.110 | 0.120 | 2.80 | 3.05 |
| F | 0.075 | | 1.90 | |
| G | 0.037 | | 0.95 | |
| Н | 0.047 | 0.055 | 1.19 | 1.40 |
| | 0.083 | 0.098 | 2.10 | 2.49 |
| J | 0.014 | 0.020 | 0.35 | 0.50 |
| SOT-23 (REV: R3) | | | | |

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