

CMLT3904E CMLT3904EG* NPN
 CMLT3906E CMLT3906EG* PNP
 CMLT3946E CMLT3946EG* NPN/PNP

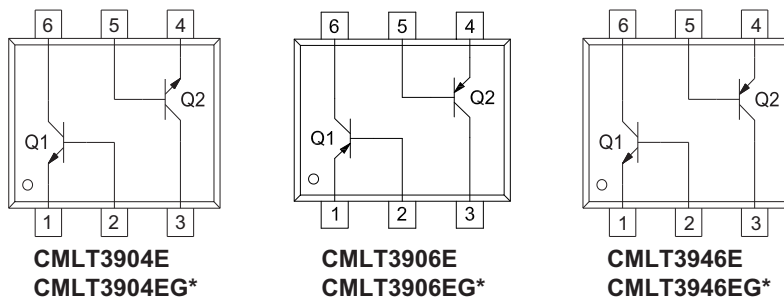
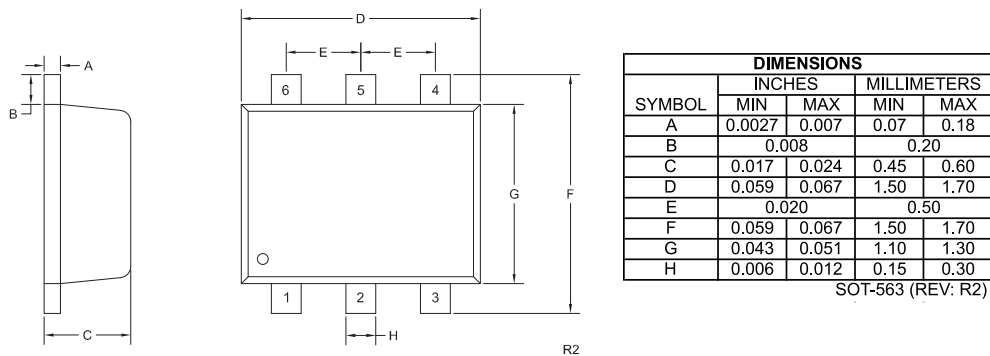


**ENHANCED SPECIFICATION
 SURFACE MOUNT SILICON
 COMPLEMENTARY TRANSISTORS**

ELECTRICAL CHARACTERISTICS PER TRANSISTOR - Continued: ($T_A=25^\circ\text{C}$)

| SYMBOL | TEST CONDITIONS | MIN | MAX | UNITS |
|----------|--|-----|-----|------------------|
| f_T | $V_{CE}=20\text{V}$, $I_C=10\text{mA}$, $f=100\text{MHz}$ | 300 | | MHz |
| C_{ob} | $V_{CB}=5.0\text{V}$, $I_E=0$, $f=1.0\text{MHz}$ | | 4.0 | pF |
| C_{ib} | $V_{BE}=0.5\text{V}$, $I_C=0$, $f=1.0\text{MHz}$ | | 12 | pF |
| h_{ie} | $V_{CE}=10\text{V}$, $I_C=1.0\text{mA}$, $f=1.0\text{kHz}$ | 1.0 | 12 | k Ω |
| h_{re} | $V_{CE}=10\text{V}$, $I_C=1.0\text{mA}$, $f=1.0\text{kHz}$ | 0.1 | 10 | $\times 10^{-4}$ |
| h_{fe} | $V_{CE}=10\text{V}$, $I_C=1.0\text{mA}$, $f=1.0\text{kHz}$ | 100 | 400 | |
| h_{oe} | $V_{CE}=10\text{V}$, $I_C=1.0\text{mA}$, $f=1.0\text{kHz}$ | 1.0 | 60 | μS |
| NF | $V_{CE}=5.0\text{V}$, $I_C=100\mu\text{A}$, $R_S=1.0\text{k}\Omega$ $f=10\text{Hz}$ to 15.7kHz | | 4.0 | dB |
| t_d | $V_{CC}=3.0\text{V}$, $V_{BE}=0.5\text{V}$, $I_C=10\text{mA}$, $I_{B1}=1.0\text{mA}$ | | 35 | ns |
| t_r | $V_{CC}=3.0\text{V}$, $V_{BE}=0.5\text{V}$, $I_C=10\text{mA}$, $I_{B1}=1.0\text{mA}$ | | 35 | ns |
| t_s | $V_{CC}=3.0\text{V}$, $I_C=10\text{mA}$, $I_{B1}=I_{B2}=1.0\text{mA}$ | | 200 | ns |
| t_f | $V_{CC}=3.0\text{V}$, $I_C=10\text{mA}$, $I_{B1}=I_{B2}=1.0\text{mA}$ | | 50 | ns |

SOT-563 CASE - MECHANICAL OUTLINE



* Device is *Halogen Free* by design

R8 (21-September 2018)

OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- Consolidated shipping options
- Custom bar coding for shipments
- Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- Environmental regulation compliance
- Customer specific screening
- Up-screening capabilities
- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- Application and design sample kits
- Custom product and package development

REQUESTING PRODUCT PLATING

1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

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