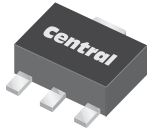


CXTA62

**SURFACE MOUNT
PNP SILICON
DARLINGTON TRANSISTOR**



SOT-89 CASE



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CXTA62 is a PNP Silicon Darlington transistor manufactured by the epitaxial planar process, epoxy molded in a surface mount package, designed for applications requiring extremely high gain.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: ($T_A=25^{\circ}\text{C}$)

| |
|--|
| Collector-Base Voltage |
| Collector-Emitter Voltage |
| Emitter-Base Voltage |
| Continuous Collector Current |
| Power Dissipation |
| Operating and Storage Junction Temperature |
| Thermal Resistance |

| SYMBOL | | UNITS |
|----------------|-------------|-----------------------------|
| V_{CBO} | 20 | V |
| V_{CES} | 20 | V |
| V_{EBO} | 10 | V |
| I_C | 500 | mA |
| P_D | 1.2 | W |
| T_J, T_{stg} | -65 to +150 | $^{\circ}\text{C}$ |
| θ_{JA} | 104 | $^{\circ}\text{C}/\text{W}$ |

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

| SYMBOL | TEST CONDITIONS | MIN | MAX | UNITS |
|---------------|---------------------------------------|-----|-----|-------|
| I_{CBO} | $V_{CB}=15\text{V}$ | | 100 | nA |
| I_{EBO} | $V_{EB}=10\text{V}$ | | 100 | nA |
| BV_{CES} | $I_C=100\mu\text{A}$ | 20 | | V |
| BV_{CBO} | $I_C=100\mu\text{A}$ | 20 | | V |
| $V_{CE(SAT)}$ | $I_C=10\text{mA}, I_B=10\mu\text{A}$ | | 1.0 | V |
| $V_{BE(ON)}$ | $V_{CE}=5.0\text{V}, I_C=10\text{mA}$ | | 1.4 | V |
| h_{FE} | $V_{CE}=5.0\text{V}, I_C=10\text{mA}$ | 20K | | |

CXTA62
SURFACE MOUNT
PNP SILICON
DARLINGTON TRANSISTOR



SOT-89 CASE - MECHANICAL OUTLINE



LEAD CODE:

- 1) Emitter
- 2) Collector
- 3) Base

MARKING:
FULL PART NUMBER

| DIMENSIONS | | | | |
|------------|--------|-------|-------------|------|
| SYMBOL | INCHES | | MILLIMETERS | |
| | MIN | MAX | MIN | MAX |
| A | 0.055 | 0.067 | 1.40 | 1.70 |
| B | 4° | | 4° | |
| C | 0.014 | 0.018 | 0.35 | 0.46 |
| D | 0.173 | 0.185 | 4.40 | 4.70 |
| E | 0.064 | 0.074 | 1.62 | 1.87 |
| F | 0.146 | 0.177 | 3.70 | 4.50 |
| G | 0.090 | 0.106 | 2.29 | 2.70 |
| H | 0.028 | 0.051 | 0.70 | 1.30 |
| J | 0.014 | 0.019 | 0.36 | 0.48 |
| K | 0.017 | 0.023 | 0.44 | 0.58 |
| L | 0.059 | | 1.50 | |
| M | 0.118 | | 3.00 | |

SOT-89 (REV: R4)

R3 (23-February 2010)