

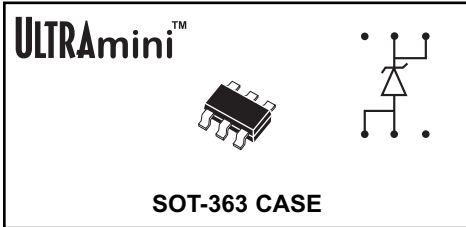
CMKTC825A
SURFACE MOUNT
ULTRAmi™
TEMPERATURE COMPENSATED
SILICON ZENER DIODE

Central™

Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMKTC825A type is a 6.2 volt temperature compensated Zener reference diode. This device is ideal for applications requiring long term voltage stability over the specified temperature range.



MARKING CODE: CT25

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

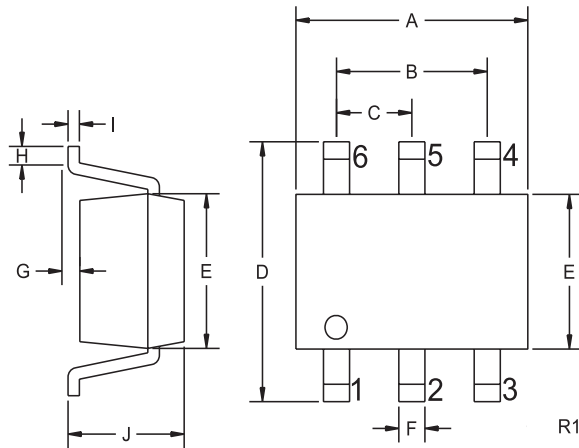
| | SYMBOL | | UNITS |
|--|----------------|-------------|------------------|
| Power Dissipation Operating and Storage | P_D | 325 | mW |
| Junction Temperature | T_J, T_{stg} | -65 to +150 | $^\circ\text{C}$ |
| Tolerance | | ± 5 | % |

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

| SYMBOL | TEST CONDITIONS | MIN | NOMINAL | MAX | UNITS |
|----------------|----------------------|------|---------|------|----------------------|
| V_Z | $I_Z = 7.5\text{mA}$ | 5.89 | 6.20 | 6.51 | V |
| Z_Z | $I_Z = 7.5\text{mA}$ | | | 20 | Ω |
| $^*\Delta V_Z$ | | | | 0.28 | mV/ $^\circ\text{C}$ |

* The Maximum allowable change observed over the temperature range of -55°C to $+100^\circ\text{C}$

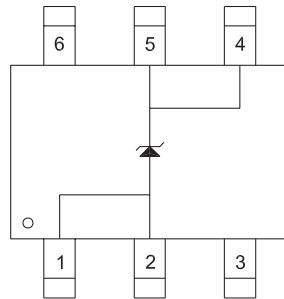
SOT-363 CASE - MECHANICAL OUTLINE



| SYMBOL | INCHES | | MILLIMETERS | |
|--------|--------|-------|-------------|------|
| | MIN | MAX | MIN | MAX |
| A | 0.073 | 0.085 | 1.85 | 2.15 |
| B | 0.051 | | 1.30 | |
| C | 0.026 | | 0.65 | |
| D | 0.075 | 0.091 | 1.90 | 2.30 |
| E | 0.043 | 0.055 | 1.10 | 1.40 |
| F | 0.006 | 0.012 | 0.15 | 0.30 |
| G | 0.000 | 0.004 | 0.00 | 0.10 |
| H | 0.010 | - | 0.25 | - |
| I | 0.004 | 0.010 | 0.10 | 0.25 |
| J | 0.031 | 0.039 | 0.80 | 1.00 |

SOT-363 (REV: R1)

Pinout



LEAD CODE:

- 1) ANODE
- 2) ANODE
- 3) N. C.
- 4) CATHODE
- 5) CATHODE
- 6) N. C.

MARKING CODE: CT25

Suggested Mounting Pad Geometry
Dimensions in mm

