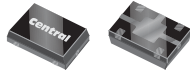


CTLS5064-M532
CTLS5064R-M532

**SURFACE MOUNT
SILICON CONTROLLED RECTIFIER**



Top View Bottom View

TLM532 CASE

• Device is **Halogen Free** by design



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CTLS5064-M532 and CTLS5064R-M532 (reverse pinout) are epoxy molded PNP Silicon Controlled Rectifiers manufactured in a TLM532 case, designed for control systems and sensing circuit applications.

**MARKING CODES: CTLS5064-M532: CS64
CTLS5064R-M532: CFF**

FEATURES:

- High Voltage ($V_{DRM}=400V$ MAX)

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

Peak Repetitive Off-State Voltage
Peak Repetitive Reverse Voltage
RMS On-State Current
Average On-State Current
Power Dissipation
Operating and Storage Junction Temperature
Thermal Resistance

SYMBOL

V_{DRM} 400
 V_{RRM} 400
 $I_T(RMS)$ 0.8
 $I_T(AV)$ 0.51
 P_D 1.0
 T_J, T_{stg} -65 to +150
 θ_{JA} 77

UNITS

V
V
A
A
W
 $^\circ C$
 $^\circ C/W$

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

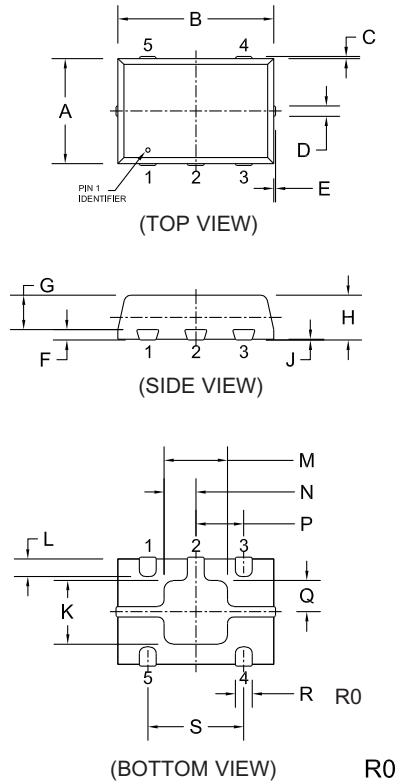
| SYMBOL | TEST CONDITIONS | MIN | TYP | MAX | UNITS |
|-----------|--|-----|-----|-----|---------|
| I_{DRM} | $V_D=Rated V_{DRM}, R_{GK}=1.0K\Omega$ | | | 1.0 | μA |
| I_{RRM} | $V_D=Rated V_{DRM}, R_{GK}=1.0K\Omega$ | | | 1.0 | μA |
| I_{DRM} | $V_D=Rated V_{DRM}, R_{GK}=1.0K\Omega, T_A=125^\circ C$ | | | 50 | μA |
| I_{RRM} | $V_D=Rated V_{DRM}, R_{GK}=1.0K\Omega, T_A=125^\circ C$ | | | 50 | μA |
| V_T | $I_T=1.2A$ | | | 1.7 | V |
| I_{GT} | $V_D=7.0V, R_L=100\Omega, R_{GK}=1.0K\Omega$ | | | 200 | μA |
| V_{GT} | $V_D=7.0V, R_L=100\Omega, R_{GK}=1.0K\Omega$ | | | 0.8 | V |
| V_{GD} | $V_D= Rated V_{DRM}, R_L=100\Omega, T_A=125^\circ C$ | 0.1 | | | V |
| I_H | $V_D=7.0, R_{GK}=1.0K\Omega$ | | | 5.0 | mA |
| t_{ON} | $V_D= Rated V_{DRM}, I_{GT}=1.0mA, R_{GK}=1.0\Omega, di/dt=6.0A/\mu s$ | | 2.8 | | μs |

CTLS5064-M532
CTLS5064R-M532

SURFACE MOUNT
SILICON CONTROLLED RECTIFIER



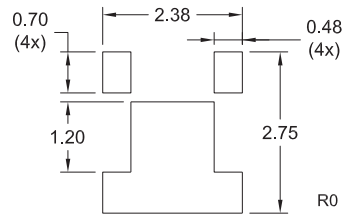
TLM532 CASE - MECHANICAL OUTLINE



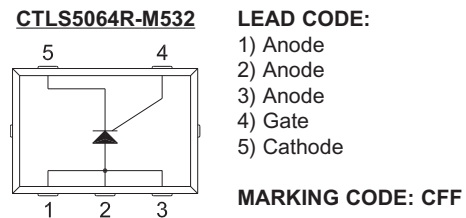
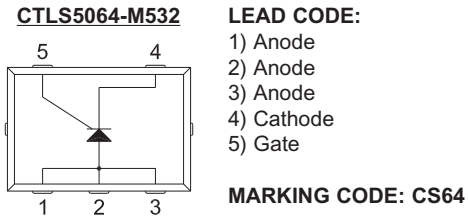
| SYMBOL | DIMENSIONS | | | |
|--------|------------|-------|-------------|-------|
| | INCHES | | MILLIMETERS | |
| | MIN | MAX | MIN | MAX |
| A | 0.007 | 0.012 | 0.170 | 0.300 |
| B | - | 0.005 | - | 0.125 |
| C | 0.114 | 0.122 | 2.900 | 3.100 |
| D | 0.075 | 0.083 | 1.900 | 2.100 |
| E | 0.006 | 0.010 | 0.150 | 0.250 |
| F | 0.026 | 0.030 | 0.650 | 0.750 |
| G | 0.031 | 0.039 | 0.800 | 1.000 |
| H | 0.000 | 0.002 | 0.000 | 0.050 |
| J | 0.009 | 0.013 | 0.240 | 0.340 |
| K | 0.006 | 0.014 | 0.160 | 0.360 |
| L | 0.008 | 0.018 | 0.200 | 0.450 |
| M | 0.013 | | 0.325 | |
| N | 0.026 | | 0.650 | |
| P | 0.040 | 0.048 | 1.010 | 1.210 |
| Q | 0.004 | | 0.100 | |
| R | 0.032 | 0.040 | 0.820 | 1.020 |
| S | 0.017 | 0.025 | 0.430 | 0.630 |

TLM832D (REV: R2)

SUGGESTED MOUNTING PADS
(Dimensions in mm)



PIN CONFIGURATIONS



R2 (19-February 2010)