

2N2322 2N2326
 2N2323 2N2327
 2N2324 2N2328
 2N2325 2N2329

**SILICON CONTROLLED RECTIFIER
 1.6 AMPS, 25 THRU 400 VOLTS**



TO-39 CASE

Central™

Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2N2322 Series types are hermetically sealed Silicon Controlled Rectifiers designed for sensing circuit applications and control systems.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: ($T_C=25^\circ\text{C}$ unless otherwise noted)

| | SYMBOL | 2N23__ | | | | | | | | UNITS |
|---|--------------------|-----------|-----------|-----------|-----------|-------------|-----------|-----------|-----------|------------------|
| | | <u>22</u> | <u>23</u> | <u>24</u> | <u>25</u> | <u>26</u> | <u>27</u> | <u>28</u> | <u>29</u> | |
| Peak Repetitive Forward Voltage | V_{DRM} | 25 | 50 | 100 | 150 | 200 | 250 | 300 | 400 | V |
| Peak Repetitive Reverse Voltage | V_{RRM} | 25 | 50 | 100 | 150 | 200 | 250 | 300 | 400 | V |
| Non-Repetitive Peak Reverse Voltage | V_{RSM} | 40 | 75 | 150 | 225 | 300 | 350 | 400 | 500 | V |
| RMS On-State Current | $I_T(\text{RMS})$ | | | | | 1.6 | | | | A |
| Average On-State Current ($T_C=85^\circ\text{C}$) | $I_T(\text{AV})$ | | | | | 1.0 | | | | A |
| Peak One Cycle Surge ($t=8.3\text{ms}$) | I_{TSM} | | | | | 15 | | | | A |
| Peak Gate Power | P_{GM} | | | | | 0.10 | | | | W |
| Average Gate Power | $P_{G(\text{AV})}$ | | | | | 0.01 | | | | W |
| Peak Gate Current | I_{GM} | | | | | 0.10 | | | | A |
| Peak Gate Voltage | V_{GM} | | | | | 6.0 | | | | V |
| Junction Temperature | T_J | | | | | -65 to +125 | | | | $^\circ\text{C}$ |
| Storage Temperature | T_{stg} | | | | | -65 to +150 | | | | $^\circ\text{C}$ |

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

| SYMBOL | TEST CONDITIONS | MIN | MAX | UNITS |
|--------------------|--|-----|-----|---------------|
| I_{DRM}, I_{RRM} | Rated $V_{DRM}, V_{RRM}, R_{GK}=1.0\text{k}\Omega$ | | 5.0 | μA |
| I_{GT} | $V_D=6.0\text{V}, R_L=100\Omega$ | | 200 | μA |
| I_H | $V_D=6.0\text{V}, R_{GK}=1.0\text{k}\Omega$ | | 2.0 | mA |
| V_{GT} | $V_D=6.0\text{V}, R_L=100\Omega$ | | 0.8 | V |
| V_{TM} | $I_{TM}=1.0\text{A}, t_p=380\mu\text{s}$ | | 1.5 | V |

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TO-39 CASE - MECHANICAL OUTLINE



| SYMBOL | DIMENSIONS | | | |
|---------|------------|-------|-------------|------|
| | INCHES | | MILLIMETERS | |
| | MIN | MAX | MIN | MAX |
| A (DIA) | 0.335 | 0.370 | 8.51 | 9.40 |
| B (DIA) | 0.315 | 0.335 | 8.00 | 8.51 |
| C | - | 0.040 | - | 1.02 |
| D | 0.240 | 0.260 | 6.10 | 6.60 |
| E | 0.500 | - | 12.70 | - |
| F (DIA) | 0.016 | 0.021 | 0.41 | 0.53 |
| G (DIA) | 0.200 | | 5.08 | |
| H | 0.100 | | 2.54 | |
| I | 0.028 | 0.034 | 0.71 | 0.86 |
| J | 0.029 | 0.045 | 0.74 | 1.14 |

TO-39 (REV: R1)

LEAD CODE:

- 1) CATHODE
- 2) GATE
- 3) ANODE (case)

MARKING: FULL PART NUMBER

R0 (11-December 2008)