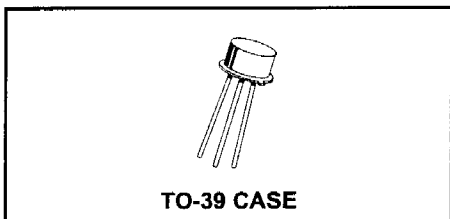


2N2322 2N2326
 2N2323 2N2327
 2N2324 2N2328
 2N2325 2N2329

SILICON CONTROLLED RECTIFIER
1.6 AMPS, 25 THRU 400 VOLTS



Series types are hermetically sealed Silicon Controlled Rectifiers designed for sensing circuit applications and control systems.

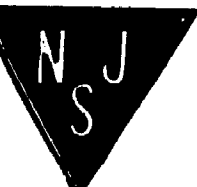
MARKING: FULL PART NUMBER

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

| | | 2N23__ | | | | | | | | |
|---|--------------|-----------|-----------|-----------|-------------|-----------|-----------|-----------|-----------|------------------|
| | SYMBOL | <u>22</u> | <u>23</u> | <u>24</u> | <u>25</u> | <u>26</u> | <u>27</u> | <u>28</u> | <u>29</u> | UNITS |
| 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 | $I_{T(RMS)}$ | | | | 1.6 | | | | | A |
| Average On-State Current ($T_C=85^\circ\text{C}$) | $I_{T(AV)}$ | | | | 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 | $P_{G(AV)}$ | | | | 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)

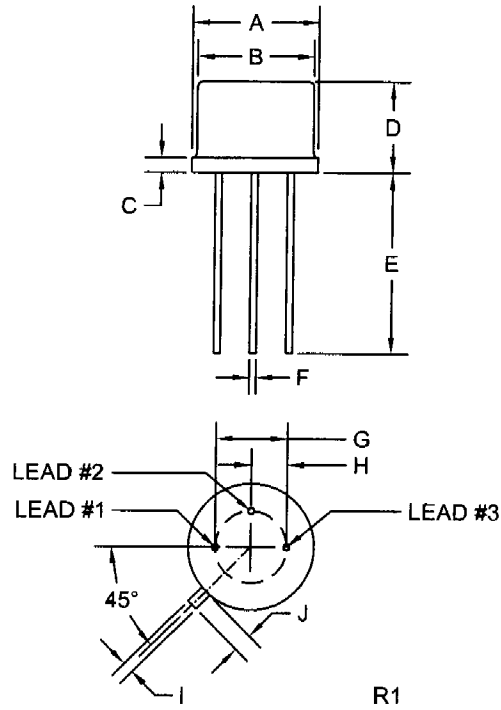
| SYMBOL | TEST CONDITIONS | MIN | MAX | UNITS |
|--------------------|--|-----|-----|---------------|
| I_{DRM}, I_{RRM} | Rated $V_{DRM}, V_{RRM}, R_{GK}=1.0\text{k}\Omega$ | | 5.0 | μA |
| I_{GT} | $V_D=6.0\text{V}, R_L=100\Omega$ | | 200 | μA |
| I_H | $V_D=6.0\text{V}, R_{GK}=1.0\text{k}\Omega$ | | 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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**SILICON CONTROLLED RECTIFIER
 1.6 AMPS, 25 THRU 400 VOLTS**

TO-39 CASE - MECHANICAL OUTLINE



| DIMENSIONS | | | | |
|------------|--------|-------|-------------|------|
| SYMBOL | 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 |

LEAD CODE:
 1) CATHODE
 2) GATE
 3) ANODE (case)

MARKING: FULL PART NUMBER

TO-39 (REV: R1)