

| Part Number | V <sub>RRM</sub> /<br>V <sub>DRM</sub><br>(V) | I <sub>RMS</sub><br>(A) | I <sub>T(AV)</sub><br>(A) | @T <sub>C</sub><br>(°C) | I <sub>TSM</sub><br>(a)<br>(A) | (b)<br>(A) | V <sub>GT</sub><br>(V) | I <sub>GT</sub><br>(A) | V <sub>TM</sub> @ I <sub>TM</sub><br>(V) | @ I <sub>TM</sub><br>(A) | dv/dt<br>(V/μs) | R <sub>θJC(DC)</sub><br>(°C/W) | Notes | Fax<br>on<br>Demand<br>Number | Case<br>Outline<br>Key |
|-------------|---|-------------------------|---------------------------|-------------------------|--------------------------------|------------|------------------------|------------------------|--|--------------------------|-----------------|--------------------------------|-------|-------------------------------|------------------------|
|-------------|---|-------------------------|---------------------------|-------------------------|--------------------------------|------------|------------------------|------------------------|--|--------------------------|-----------------|--------------------------------|-------|-------------------------------|------------------------|

## Thyristors

|          |      |    |    |    |     |     |   |    |     |  |     |      |           |       |    |
|----------|------|----|----|----|-----|-----|---|----|-----|--|-----|------|-----------|-------|----|
| 22RIA10  | 100  | 22 | 35 | 85 | 335 | 355 | 2 | 60 | 1.7 |  | 300 | 0.86 | 2 3 4 5 6 | 30060 | T1 |
| 22RIA20  | 200  | 22 | 35 | 85 | 335 | 355 | 2 | 60 | 1.7 |  | 300 | 0.86 | 2 3 4 5 6 | 30060 |    |
| 22RIA40  | 400  | 22 | 35 | 85 | 335 | 355 | 2 | 60 | 1.7 |  | 300 | 0.86 | 2 3 4 5 6 | 30060 |    |
| 22RIA60  | 600  | 22 | 35 | 85 | 335 | 355 | 2 | 60 | 1.7 |  | 300 | 0.86 | 2 3 4 5 6 | 30060 |    |
| 2N5204   | 600  | 22 | 35 | 40 | 285 | 300 | 2 | 40 | 2.3 |  | 250 | 1.5  | 2 3 4 5   | 30081 |    |
| 22RIA80  | 800  | 22 | 35 | 85 | 335 | 355 | 2 | 60 | 1.7 |  | 300 | 0.86 | 2 3 4 5 6 | 30060 |    |
| 2N5205   | 800  | 22 | 35 | 40 | 285 | 300 | 2 | 40 | 2.3 |  | 250 | 1.5  | 2 3 4 5   | 30081 |    |
| 22RIA100 | 1000 | 22 | 35 | 85 | 335 | 355 | 2 | 60 | 1.7 |  | 300 | 0.86 | 2 3 4 5 6 | 30060 |    |
| 2N5206   | 1000 | 22 | 35 | 40 | 285 | 300 | 2 | 40 | 2.3 |  | 250 | 1.5  | 2 3 4 5   | 30081 |    |
| 22RIA120 | 1200 | 22 | 35 | 85 | 335 | 355 | 2 | 60 | 1.7 |  | 300 | 0.86 | 2 3 4 5 6 | 30060 |    |
| 2N5207   | 1200 | 22 | 35 | 40 | 285 | 300 | 2 | 40 | 2.3 |  | 250 | 1.5  | 2 3 4 5   | 30081 |    |
| 22RIA140 | 1400 | 22 | 35 | 80 | 285 | 300 | 2 | 60 | 1.8 |  | 300 | 0.86 | 2 3 4 5 6 | 30060 |    |
| 22RIA160 | 1600 | 22 | 35 | 80 | 285 | 300 | 2 | 60 | 1.8 |  | 300 | 0.86 | 2 3 4 5 6 | 30060 |    |
| 25RIA10  | 100  | 25 | 40 | 85 | 350 | 370 | 2 | 60 | 1.7 |  | 300 | 0.75 | 2 3 4 5 6 | 30060 | T1 |
| 25RIA20  | 200  | 25 | 40 | 85 | 350 | 370 | 2 | 60 | 1.7 |  | 300 | 0.75 | 2 3 4 5 6 | 30060 |    |

### NOTES:

2 For I<sub>TSM</sub>: 100% V<sub>RRM</sub> reapplied, T<sub>j</sub>=T<sub>j</sub> max =125°C

3 For I<sub>GT</sub>, V<sub>GT</sub>: T<sub>j</sub> = 25°C

4 V<sub>TM</sub> @ π X I<sub>T(AV)</sub>, T<sub>j</sub>=125°C

5 dv/dt exponential to 0.67 V<sub>DRM</sub>, T<sub>j</sub>=25°C

6 Available with metric stud. To order, add 'M' to part number, e.g. 10RIA10M

7 dv/dt linear to 0.8 V<sub>DM</sub>, T<sub>j</sub> = 125°C

8 dv/dt exponential to 100% V<sub>DRM</sub>; T<sub>j</sub> = 125°C

9 V<sub>TM</sub> measured at T<sub>j</sub>=T<sub>j</sub> max

10 Max T<sub>j</sub> = 150°C

11 Available with fast-on terminals. To order, change last '0' to '1' in part number, e.g. ST180S04P1V

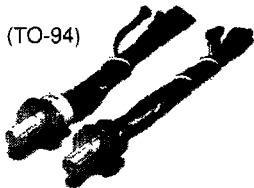
12 Available with fast-on terminals. To order, change first '0' to '1' in part number, e.g. 81RIA40

13 Available with flag terminals. To order, change first '0' to '2' in part number, e.g. 82RIA40

15 dv/dt exponential to 0.67; T<sub>j</sub> = 125°C

16 Available with flag terminal. To order, change last '0' to '2' in part number, e.g. ST180S04P2V

TO-209AC (TO-94)



TO-209AB (TO-93)

TO-209AE (TO-118)



TO-208AA  
(TO-48)



TO-208AC  
(TO-65)



TO-208AD  
(TO-83)

