

## 3918590 GENERAL SEMICONDUCTOR

95D 02096 D

Ic = 25 AMPS

7-33-13

| DEVICE TYPE | PACKAGE | BV <sub>CEO</sub> VOLTS | BV <sub>CBO</sub> /BV <sub>CEV</sub> VOLTS | BV <sub>EBO</sub> VOLTS | P <sub>D</sub> @ 100°C WATTS | h <sub>FE</sub> @ |      | I <sub>C</sub> AMPS | V <sub>CE</sub> VOLTS | V <sub>CE(sat)</sub> @ I <sub>C</sub> |       | I <sub>B</sub> AMPS | f <sub>T</sub> MHz | I <sub>CBO</sub> /I <sub>CEV</sub> @ V <sub>CB</sub> μAMP VOLTS | DATA SHEET PG. NO. |      |
|-------------|---------|-------------------------|--|-------------------------|------------------------------|-------------------|------|---------------------|-----------------------|---------------------------------------|-------|---------------------|--------------------|---|--------------------|------|
|             |         |                         |  |                         |                              | Min.              | Max. |                     |                       | Volts                                 | Volts |                     |                    |   |                    |      |
| 2N2819      | TO-63   | 80                      | 90   | 6.0                     | 118.0                        | 10                | 50   | 15                  | 3.0                   | 1.0                                   | 1.0   | 1.0                 | 20                 |   |                    |      |
| 2N2820      | TO-63   | 100                     | 100  | 6.0                     | 118.0                        | 10                | 50   | 15                  | 3.0                   | 1.0                                   | 1.0   | 1.0                 | 20                 |   |                    |      |
| 2N2821      | TO-63   | 150                     | 150  | 6.0                     | 118.0                        | 10                | 50   | 15                  | 3.0                   | 1.0                                   | 1.0   | 1.0                 | 20                 |   | 4-12               |      |
| 2N2822      | TO-63   | 200                     | 200  | 6.0                     | 118.0                        | 10                | 50   | 15                  | 3.0                   | 1.0                                   | 1.0   | 1.0                 | 20                 |   |                    |      |
| 2N6338      | TO-3    | 100                     | 120  | 6.0                     | 114.0                        | 30                | 120  | 10                  | 2.0                   | 1.8                                   | 25    | 2.5                 | 40                 | 10  | 100                | 4-50 |
| 2N6339      | TO-3    | 120                     | 140  | 6.0                     | 114.0                        | 30                | 120  | 10                  | 2.0                   | 1.8                                   | 25    | 2.5                 | 40                 | 10  | 120                | 4-50 |
| 2N6340      | TO-3    | 140                     | 160  | 6.0                     | 114.0                        | 30                | 120  | 10                  | 2.0                   | 1.8                                   | 25    | 2.5                 | 40                 | 10  | 140                | 4-50 |
| 2N6341      | TO-3    | 150                     | 180  | 6.0                     | 114.0                        | 30                | 120  | 10                  | 2.0                   | 1.8                                   | 25    | 2.5                 | 40                 | 10  | 150                | 4-50 |
| GSRU20030   | TO-204  | 300                     | 400  | 8.0                     | 114.0                        | 8                 | 20   | 5.0                 | 1.5                   | 20                                    | 4.0   | 20                  | 100                | 320   | 4-100              |      |
| GSRU20035   | TO-204  | 350                     | 450  | 8.0                     | 114.0                        | 8                 | 20   | 5.0                 | 1.5                   | 20                                    | 4.0   | 20                  | 100                | 360   | 4-100              |      |
| GSRU20040   | TO-204  | 400                     | 500  | 8.0                     | 114.0                        | 8                 | 20   | 5.0                 | 1.5                   | 20                                    | 4.0   | 20                  | 100                | 400   | 4-100              |      |

Ic = 30 AMPS

| DEVICE TYPE | PACKAGE | BV <sub>CEO</sub> VOLTS | BV <sub>CBO</sub> /BV <sub>CEV</sub> VOLTS | BV <sub>EBO</sub> VOLTS | P <sub>D</sub> @ 100°C WATTS | h <sub>FE</sub> @ |      | I <sub>C</sub> AMPS | V <sub>CE</sub> VOLTS | V <sub>CE(sat)</sub> @ I <sub>C</sub> |       | I <sub>B</sub> AMPS | f <sub>T</sub> MHz | I <sub>CBO</sub> /I <sub>CEV</sub> @ V <sub>CB</sub> μAMP VOLTS | SHEET PG. NO. |       |
|-------------|---------|-------------------------|--|-------------------------|------------------------------|-------------------|------|---------------------|-----------------------|---------------------------------------|-------|---------------------|--------------------|---|---------------|-------|
|             |         |                         |  |                         |                              | Min.              | Max. |                     |                       | Volts                                 | Volts |                     |                    |   |               |       |
| 2N2823      | TO-63   | 80                      | 80   | 6.0                     | 118                          | 10                | 40   | 20.0                | 3.0                   | 0.6                                   | 10    | 1.0                 | 20                 |   |               |       |
| 2N2824      | TO-63   | 100                     | 100  | 6.0                     | 118                          | 10                | 40   | 20.0                | 3.0                   | 0.6                                   | 10    | 1.0                 | 20                 |   |               |       |
| 2N2825      | TO-63   | 150                     | 150  | 6.0                     | 118                          | 10                | 40   | 20.0                | 3.0                   | 0.6                                   | 10    | 1.0                 | 20                 |   | 4-13          |       |
| 2N4002      | TO-63   | 80                      | 80   | 8.0                     | 100                          | 20                | 80   | 30.0                | 4.0                   | 1.2                                   | 30    | 4.0                 | 30                 | 1.0mA   | 90            | 4-22  |
| 2N4003      | TO-63   | 100                     | 100  | 8.0                     | 100                          | 20                | 80   | 4.0                 | 4.0                   | 1.2                                   | 30    | 4.0                 | 30                 | 1.0mA   | 110           | 4-22  |
| 2N5733      | TO-63   | 80                      | 80   | 5.0                     | 100                          | 30                | 300  | 10.0                | 2.0                   | 1.2                                   | 20    | 2.0                 | 30                 | 1.0mA   | 100           |       |
| 2N5734      | TO-3    | 80                      | 80   | 5.0                     | 100                          | 30                | 300  | 10.0                | 2.0                   | 1.2                                   | 20    | 2.0                 | 30                 | 1.0mA   | 100           |       |
| XGSR50020   | TO-3    | 200                     | 250  | 8.0                     | 100                          | 8                 | 30.0 | 5.0                 | 2.0                   | 2.0                                   | 50    | 10.0                | 30                 | 500   | 200           | 4-131 |

Ic = 35 AMPS

| DEVICE TYPE | PACKAGE | BV <sub>CEO</sub> VOLTS | BV <sub>CBO</sub> /BV <sub>CEV</sub> VOLTS | BV <sub>EBO</sub> VOLTS | P <sub>D</sub> @ 100°C WATTS | h <sub>FE</sub> @ |      | I <sub>C</sub> AMPS | V <sub>CE</sub> VOLTS | V <sub>CE(sat)</sub> @ I <sub>C</sub> |       | I <sub>B</sub> AMPS | f <sub>T</sub> MHz | I <sub>CBO</sub> /I <sub>CEV</sub> @ V <sub>CB</sub> μAMP VOLTS | DATA SHEET PG. NO. |      |
|-------------|---------|-------------------------|--|-------------------------|------------------------------|-------------------|------|---------------------|-----------------------|---------------------------------------|-------|---------------------|--------------------|---|--------------------|------|
|             |         |                         |  |                         |                              | Min.              | Max. |                     |                       | Volts                                 | Volts |                     |                    |   |                    |      |
| 2N6924      | TO-3    | 400                     | 550  | 8.0                     | 172.0                        | 8                 | 25   | 2.0                 | 2.0                   | 1.0                                   | 25    | 5.0                 | 15                 | 1000  | 550                | 4-80 |
| 2N6924A     | TO-3    | 400                     | 850  | 8.0                     | 172.0                        | 8                 | 25   | 2.0                 | 2.0                   | 1.0                                   | 25    | 5.0                 | 15                 | 1000  | 850                | 4-80 |
| 2N6925      | TO-3    | 450                     | 550  | 8.0                     | 172.0                        | 8                 | 25   | 2.0                 | 2.0                   | 1.0                                   | 25    | 5.0                 | 15                 | 1000  | 550                | 4-80 |
| 2N6925A     | TO-3    | 450                     | 850  | 8.0                     | 172.0                        | 8                 | 25   | 2.0                 | 2.0                   | 1.0                                   | 25    | 5.0                 | 15                 | 1000  | 850                | 4-80 |

Ic = 40 AMPS

| DEVICE TYPE | PACKAGE   | BV <sub>CEO</sub> VOLTS | BV <sub>CBO</sub> /BV <sub>CEV</sub> VOLTS | BV <sub>EBO</sub> VOLTS | P <sub>D</sub> @ 100°C WATTS | h <sub>FE</sub> @ |      | I <sub>C</sub> AMPS | V <sub>CE</sub> VOLTS | V <sub>CE(sat)</sub> @ I <sub>C</sub> |       | I <sub>B</sub> AMPS | f <sub>T</sub> MHz | I <sub>CBO</sub> /I <sub>CEV</sub> @ V <sub>CB</sub> μAMP VOLTS | DATA SHEET PG. NO. |      |
|-------------|-----------|-------------------------|--|-------------------------|------------------------------|-------------------|------|---------------------|-----------------------|---------------------------------------|-------|---------------------|--------------------|---|--------------------|------|
|             |           |                         |  |                         |                              | Min.              | Max. |                     |                       | Volts                                 | Volts |                     |                    |   |                    |      |
| 2N6033      | TO-3(Mod) | 120                     | 150  | 7.0                     | 80                           | 10                | 50   | 40                  | 2.0                   | 1.0                                   | 40    | 4.0                 | 50                 | 10mA  | 135                | 4-44 |
| GSTU30018   | TO-3      | 180                     | 250  | 7.0                     | 100                          | 10                | 30   | 5.0                 | 1.0                   | 30                                    | 6.0   | 25                  | 500                | 144   | 4-112              |      |
| GSTU30020   | TO-3      | 200                     | 300  | 7.0                     | 100                          | 10                | 30   | 5.0                 | 1.0                   | 30                                    | 6.0   | 25                  | 500                | 160   | 4-112              |      |
| SDT96304    | TO-3(Mod) | 200                     | 225  | 8.0                     | 100                          | 8                 | 40   | 40                  | 10.0                  | 1.5                                   | 40    | 8.0                 | 10                 | 10  | 150                |      |
| SDT96305    | TO-3(Mod) | 250                     | 275  | 8.0                     | 100                          | 8                 | 40   | 40                  | 10.0                  | 1.5                                   | 40    | 8.0                 | 10                 | 10  | 200                |      |
| SDT96306    | TO-3(Mod) | 300                     | 325  | 8.0                     | 100                          | 8                 | 40   | 40                  | 10.0                  | 1.5                                   | 40    | 8.0                 | 10                 | 10  | 250                |      |

Ic = 50 AMPS

| DEVICE TYPE | PACKAGE   | BV <sub>CEO</sub> VOLTS | BV <sub>CBO</sub> /BV <sub>CEV</sub> VOLTS | BV <sub>EBO</sub> VOLTS | P <sub>D</sub> @ 100°C WATTS | h <sub>FE</sub> @ |      | I <sub>C</sub> AMPS | V <sub>CE</sub> VOLTS | V <sub>CE(sat)</sub> @ I <sub>C</sub> |       | I <sub>B</sub> AMPS | f <sub>T</sub> MHz | I <sub>CBO</sub> /I <sub>CEV</sub> @ V <sub>CB</sub> μAMP VOLTS | DATA SHEET PG. NO. |      |
|-------------|-----------|-------------------------|--|-------------------------|------------------------------|-------------------|------|---------------------|-----------------------|---------------------------------------|-------|---------------------|--------------------|---|--------------------|------|
|             |           |                         |  |                         |                              | Min.              | Max. |                     |                       | Volts                                 | Volts |                     |                    |   |                    |      |
| 2N6032      | TO-3(Mod) | 90                      | 120  | 7.0                     | 80.0                         | 10                | 50   | 50                  | 2.6                   | 1.3                                   | 50    | 5.0                 | 50                 | 12mA  | 110                | 4-43 |
| 2N6215      | TO-63     | 80                      | 100  | 8.0                     | 125.0                        | 25                | 125  | 25                  | 2.0                   | 1.0                                   | 20    | 2.0                 | 20                 | 200   | 100                | 4-49 |
| 2N6274      | TO-3(Mod) | 100                     | 120  | 6.0                     | 143.0                        | 30                | 120  | 20                  | 4.0                   | 1.0                                   | 20    | 2.0                 | 30                 | 10  | 120                | 4-47 |
| 2N6277      | TO-3(Mod) | 150                     | 180  | 6.0                     | 143.0                        | 30                | 120  | 20                  | 4.0                   | 1.0                                   | 20    | 2.0                 | 30                 | 10  | 180                | 4-47 |
| 2N6278      | TO-63     | 100                     | 120  | 6.0                     | 143.0                        | 30                | 120  | 20                  | 4.0                   | 1.0                                   | 20    | 2.0                 | 30                 | 10  | 120                | 4-48 |
| 2N6279      | TO-63     | 120                     | 140  | 6.0                     | 143.0                        | 30                | 120  | 20                  | 4.0                   | 1.0                                   | 20    | 2.0                 | 30                 | 10  | 140                | 4-49 |
| 2N6280      | TO-63     | 140                     | 160  | 6.0                     | 143.0                        | 30                | 120  | 20                  | 4.0                   | 1.0                                   | 20    | 2.0                 | 30                 | 10  | 160                | 4-49 |
| 2N6281      | TO-63     | 150                     | 180  | 6.0                     | 143.0                        | 30                | 120  | 20                  | 4.0                   | 1.0                                   | 20    | 2.0                 | 30                 | 10  | 180                | 4-49 |
| GSDS50018   | TO-3(Mod) | 80                      | 180  | 7.0                     | 100.0                        | 8                 | 50   | 50                  | 4.0                   | 1.0                                   | 50    | 10.0                | 30                 | 10  | 200                | 4-86 |
| GSDS50020   | TO-3(Mod) | 200                     | 200  | 7.0                     | 100.0                        | 8                 | 50   | 50                  | 4.0                   | 1.0                                   | 50    | 10.0                | 30                 | 10  | 200                | 4-86 |