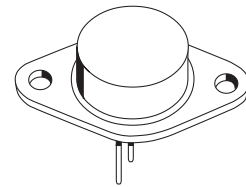


# Power Transistors

TO-3 Case



| TYPE NO. |        | I <sub>C</sub><br>(A)<br>MAX | P <sub>D</sub><br>(W) | BV <sub>CBO</sub><br>(V)<br>MIN | BV <sub>CEO</sub><br>(V)<br>MIN | h <sub>FE</sub> |        | @ I <sub>C</sub><br>(A) | V <sub>CE(SAT)</sub> @ I <sub>C</sub> |     | f <sub>T</sub><br>(MHz)<br>MIN |
|----------|--------|------------------------------|-----------------------|---------------------------------|---------------------------------|-----------------|--------|-------------------------|---------------------------------------|-----|--------------------------------|
| NPN      | PNP    |                              |                       |                                 |                                 | MIN             | MAX    |                         | (V)<br>MAX                            | (A) |                                |
| 2N3055   | MJ2955 | 15                           | 115                   | 100                             | 60                              | 5.0             | --     | 10                      | 3.0                                   | 10  | 2.5                            |
| 2N3442   |        | 10                           | 117                   | 160                             | 140                             | 20              | 70     | 3.0                     | 5.0                                   | 10  | --                             |
| 2N3713   | 2N3789 | 10                           | 150                   | 80                              | 60                              | 15              | --     | 3.0                     | 1.0                                   | 5.0 | 4.0                            |
| 2N3714   | 2N3790 | 10                           | 150                   | 100                             | 80                              | 15              | --     | 3.0                     | 1.0                                   | 5.0 | 4.0                            |
| 2N3715   | 2N3791 | 10                           | 150                   | 80                              | 60                              | 30              | --     | 3.0                     | 1.0                                   | 5.0 | 4.0                            |
| 2N3716   | 2N3792 | 10                           | 150                   | 100                             | 80                              | 30              | --     | 3.0                     | 1.0                                   | 5.0 | 4.0                            |
| 2N3771   |        | 30                           | 150                   | 50                              | 40                              | 15              | 60     | 15                      | 2.0                                   | 15  | --                             |
| 2N3772   |        | 20                           | 150                   | 100                             | 60                              | 15              | 60     | 10                      | 1.4                                   | 10  | --                             |
| 2N3773   | 2N6609 | 16                           | 150                   | 160                             | 140                             | 15              | 60     | 8.0                     | 4.0                                   | 16  | --                             |
| 2N4913   | 2N4904 | 5.0                          | 87.5                  | 40                              | 40                              | 7.0             | --     | 5.0                     | 1.5                                   | 5.0 | 4.0                            |
| 2N4914   | 2N4905 | 5.0                          | 87.5                  | 60                              | 60                              | 7.0             | --     | 5.0                     | 1.5                                   | 5.0 | 4.0                            |
| 2N4915   | 2N4906 | 5.0                          | 87.5                  | 80                              | 80                              | 7.0             | --     | 5.0                     | 1.5                                   | 5.0 | 4.0                            |
| 2N5067   | 2N4901 | 5.0                          | 87.5                  | 40                              | 40                              | 7.0             | --     | 5.0                     | 1.5                                   | 5.0 | 4.0                            |
| 2N5068   | 2N4902 | 5.0                          | 87.5                  | 60                              | 60                              | 7.0             | --     | 5.0                     | 1.5                                   | 5.0 | 4.0                            |
| 2N5069   | 2N4903 | 5.0                          | 87.5                  | 80                              | 80                              | 7.0             | --     | 5.0                     | 1.5                                   | 5.0 | 4.0                            |
| 2N5301   | 2N4398 | 30                           | 200                   | 40                              | 40                              | 15              | 60     | 15                      | 4.0                                   | 30  | 4.0                            |
| 2N5302   | 2N4399 | 30                           | 200                   | 60                              | 60                              | 15              | 60     | 15                      | 4.0                                   | 30  | 4.0                            |
| 2N5303   | 2N5745 | 20                           | 200                   | 80                              | 80                              | 15              | 60     | 10                      | 2.0                                   | 20  | 2.0                            |
| 2N5629   | 2N6029 | 16                           | 200                   | 100                             | 100                             | 25              | 100    | 8.0                     | 2.0                                   | 16  | 1.0                            |
| 2N5632   | 2N6229 | 10                           | 150                   | 100                             | 100                             | 25              | 100    | 5.0                     | 2.0                                   | 10  | 1.0                            |
| 2N5877   | 2N5875 | 10                           | 150                   | 60                              | 60                              | 4.0             | --     | 10                      | 3.0                                   | 10  | 4.0                            |
| 2N5878   | 2N5876 | 10                           | 150                   | 80                              | 80                              | 4.0             | --     | 10                      | 3.0                                   | 10  | 4.0                            |
| 2N5881   | 2N5879 | 15                           | 160                   | 60                              | 60                              | 4.0             | --     | 15                      | 4.0                                   | 15  | 4.0                            |
| 2N5882   | 2N5880 | 15                           | 160                   | 80                              | 80                              | 4.0             | --     | 15                      | 4.0                                   | 15  | 4.0                            |
| 2N5885   | 2N5883 | 25                           | 200                   | 60                              | 60                              | 20              | 100    | 10                      | 4.0                                   | 25  | 4.0                            |
| 2N5886   | 2N5884 | 25                           | 200                   | 80                              | 80                              | 20              | 100    | 10                      | 4.0                                   | 25  | 4.0                            |
| 2N6055   | 2N6053 | 8.0                          | 100                   | 60                              | 60                              | 750             | 18,000 | 4.0                     | 3.0                                   | 8.0 | 4.0                            |
| 2N6056   | 2N6054 | 8.0                          | 100                   | 80                              | 80                              | 750             | 18,000 | 4.0                     | 3.0                                   | 8.0 | 4.0                            |
| 2N6057   | 2N6050 | 12                           | 150                   | 60                              | 60                              | 750             | 18,000 | 6.0                     | 3.0                                   | 12  | 4.0                            |
| 2N6058   | 2N6051 | 12                           | 150                   | 80                              | 80                              | 750             | 18,000 | 6.0                     | 3.0                                   | 12  | 4.0                            |
| 2N6059   | 2N6052 | 12                           | 150                   | 100                             | 100                             | 750             | 18,000 | 6.0                     | 3.0                                   | 12  | 4.0                            |
|          | 2N6246 | 15                           | 125                   | 70                              | 60                              | 20              | 100    | 7.0                     | 2.5                                   | 15  | 4.0                            |
|          | 2N6247 | 15                           | 125                   | 90                              | 80                              | 20              | 100    | 6.0                     | 3.5                                   | 15  | 4.0                            |

Shaded areas indicate Darlingtons.

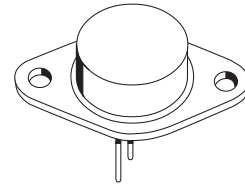
(6-December 2004)

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# Power Transistors

## TO-3 Case (Continued)



| TYPE NO. |        | $I_C$      | $P_D$ | $BV_{CBO}$ | $BV_{CEO}$ | $h_{FE}$ |        | $@ I_C$ | $V_{CE(SAT)}$ |     | $f_T$        |
|----------|--------|------------|-------|------------|------------|----------|--------|---------|---------------|-----|--------------|
| NPN      | PNP    | (A)<br>MAX | (W)   | (V)<br>MIN | (V)<br>MIN | MIN      | MAX    | (A)     | (V)<br>MAX    | (A) | (MHz)<br>MIN |
|          | 2N6248 | 10         | 125   | 110        | 100        | 20       | 100    | 5.0     | 3.5           | 10  | 4.0          |
| 2N6249   |        | 10         | 175   | 300        | 200        | 10       | 50     | 10      | 1.5           | 10  | 2.5          |
| 2N6250   |        | 10         | 175   | 375        | 275        | 8.0      | 50     | 10      | 1.5           | 10  | 2.5          |
| 2N6251   |        | 10         | 175   | 450        | 350        | 6.0      | 50     | 10      | 1.5           | 10  | 2.5          |
| 2N6253   |        | 15         | 115   | 55         | 45         | 20       | 70     | 3.0     | 4.0           | 15  | 4.0          |
| 2N6254   |        | 15         | 150   | 100        | 80         | 20       | 70     | 5.0     | 4.0           | 15  | --           |
| 2N6282   | 2N6285 | 20         | 160   | 60         | 60         | 750      | 18,000 | 10      | 3.0           | 20  | 4.0          |
| 2N6283   | 2N6286 | 20         | 160   | 80         | 80         | 750      | 18,000 | 10      | 3.0           | 20  | 4.0          |
| 2N6284   | 2N6287 | 20         | 160   | 100        | 100        | 750      | 18,000 | 10      | 3.0           | 20  | 4.0          |
| 2N6306   |        | 8.0        | 125   | 500        | 250        | 15       | 75     | 8.0     | 5.0           | 8.0 | 5.0          |
| 2N6307   |        | 8.0        | 125   | 600        | 300        | 15       | 75     | 8.0     | 5.0           | 8.0 | 5.0          |
| 2N6308   |        | 8.0        | 125   | 700        | 350        | 12       | 60     | 8.0     | 5.0           | 8.0 | 5.0          |
| 2N6371   |        | 15         | 117   | 50         | 40         | 15       | 60     | 8.0     | 4.0           | 16  | 4.0          |
| 2N6383   | 2N6648 | 10         | 100   | 40         | 40         | 1,000    | 20,000 | 5.0     | 3.0           | 10  | 6.0          |
| 2N6384   | 2N6649 | 10         | 100   | 60         | 60         | 1,000    | 20,000 | 5.0     | 3.0           | 10  | 6.0          |
|          |        | 10         | 100   | 80         | 80         | 1,000    | 20,000 | 5.0     | 3.0           | 10  | 6.0          |
|          | 2N6469 | 15         | 125   | 50         | 40         | 20       | 150    | 5.0     | 3.5           | 15  | 4.0          |
| 2N6470   |        | 15         | 125   | 50         | 40         | 20       | 150    | 5.0     | 3.5           | 15  | 4.0          |
| 2N6471   |        | 15         | 125   | 70         | 60         | 20       | 150    | 5.0     | 3.5           | 15  | 4.0          |
| 2N6472   |        | 15         | 125   | 90         | 80         | 20       | 150    | 5.0     | 3.5           | 15  | 4.0          |
| 2N6542   |        | 5.0        | 100   | 650        | 300        | 7.0      | 35     | 3.0     | 1.0           | 3.0 | 6.0          |
| 2N6543   |        | 5.0        | 100   | 850        | 400        | 7.0      | 35     | 3.0     | 1.0           | 3.0 | 6.0          |
| 2N6544   |        | 8.0        | 125   | 650        | 300        | 7.0      | 35     | 5.0     | 1.5           | 8.0 | 6.0          |
| 2N6545   |        | 8.0        | 125   | 850        | 400        | 7.0      | 35     | 5.0     | 1.5           | 5.0 | 6.0          |
| 2N6546   |        | 15         | 175   | 650        | 300        | 12       | 60     | 5.0     | 1.5           | 10  | 6.0          |
| 2N6547   |        | 15         | 175   | 850        | 400        | 12       | 60     | 5.0     | 1.5           | 10  | 6.0          |
| 2N6569   | 2N6594 | 12         | 100   | 45         | 40         | 15       | 200    | 4.0     | 1.5           | 4.0 | 2.5          |
| 2N6576   |        | 15         | 120   | 60         | 60         | 2,000    | 20,000 | 4.0     | 4.0           | 15  | 6.0          |
| 2N6577   |        | 15         | 120   | 90         | 90         | 2,000    | 20,000 | 4.0     | 4.0           | 15  | 6.0          |
| 2N6578   |        | 15         | 120   | 120        | 120        | 2,000    | 20,000 | 4.0     | 4.0           | 15  | 6.0          |
| 2N6671   |        | 8.0        | 150   | 350        | 300        | 10       | 40     | --      | 2.0           | 8.0 | 15           |
| 2N6672   |        | 8.0        | 150   | 400        | 350        | 10       | 40     | --      | 2.0           | 8.0 | 15           |
| 2N6673   |        | 8.0        | 150   | 450        | 400        | 10       | 40     | --      | 2.0           | 8.0 | 15           |

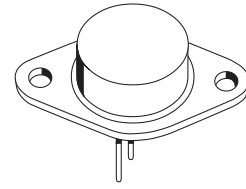
Shaded areas indicate Darlington.

(6-December 2004)

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# Power Transistors

## TO-3 Case (Continued)



| TYPE NO. |        | I <sub>C</sub><br>(A)<br>MAX | P <sub>D</sub><br>(W) | BV <sub>CBO</sub><br>(V)<br>MIN | BV <sub>CEO</sub><br>(V)<br>MIN | h <sub>FE</sub><br>*TYP |        | @ I <sub>C</sub><br>(A) | V <sub>CE(SAT)</sub><br>@ I <sub>C</sub> |     | f <sub>T</sub><br>*TYP<br>(MHz)<br>MIN |
|----------|--------|------------------------------|-----------------------|---------------------------------|---------------------------------|-------------------------|--------|-------------------------|--|-----|--|
| NPN      | PNP    |                              |                       |                                 |                                 | MIN                     | MAX    |                         | (V)<br>MAX                               | (A) |  |
| 2N6674   |        | 15                           | 175                   | 350                             | 300                             | 8.0                     | 20     | --                      | 5.0                                      | 15  | 15                                     |
| 2N6675   |        | 15                           | 175                   | 450                             | 400                             | 8.0                     | 20     | --                      | 5.0                                      | 15  | 15                                     |
| BDW51    | BDW52  | 15                           | 125                   | 45                              | 45                              | 20                      | 150    | 5.0                     | 3.0                                      | 10  | 3.0                                    |
| BDW51A   | BDW52A | 15                           | 125                   | 60                              | 60                              | 20                      | 150    | 5.0                     | 3.0                                      | 10  | 3.0                                    |
| BDW51B   | BDW52B | 15                           | 125                   | 80                              | 80                              | 20                      | 150    | 5.0                     | 3.0                                      | 10  | 3.0                                    |
| BDW51C   | BDW52C | 15                           | 125                   | 100                             | 100                             | 20                      | 150    | 5.0                     | 3.0                                      | 10  | 3.0                                    |
| BDX85    | BDX86  | 10                           | 100                   | 45                              | 45                              | 750                     | 18,000 | 4.0                     | 4.0                                      | 8.0 | 10*                                    |
| BDX85A   | BDX86A | 10                           | 100                   | 60                              | 60                              | 750                     | 18,000 | 4.0                     | 4.0                                      | 8.0 | 10*                                    |
| BDX85B   | BDX86B | 10                           | 100                   | 80                              | 80                              | 750                     | 18,000 | 4.0                     | 4.0                                      | 8.0 | 10*                                    |
| BDX85C   | BDX86C | 10                           | 100                   | 100                             | 100                             | 750                     | 18,000 | 4.0                     | 4.0                                      | 8.0 | 10*                                    |
| BDX87    | BDX88  | 12                           | 120                   | 40                              | 40                              | 750                     | 18,000 | 6.0                     | 3.0                                      | 12  | 20*                                    |
| BDX87A   | BDX88A | 12                           | 120                   | 60                              | 60                              | 750                     | 18,000 | 6.0                     | 3.0                                      | 12  | 20*                                    |
| BDX87B   | BDX88B | 12                           | 120                   | 80                              | 80                              | 750                     | 18,000 | 6.0                     | 3.0                                      | 12  | 20*                                    |
| BDX87C   | BDX88C | 12                           | 120                   | 100                             | 100                             | 750                     | 18,000 | 6.0                     | 3.0                                      | 12  | 20*                                    |
| BU208    |        | 8.0                          | 150                   | 1,500                           | 700                             | --                      | --     | --                      | 5.0                                      | 4.5 | 7.0*                                   |
| BU208A   |        | 8.0                          | 150                   | 1,500                           | 700                             | --                      | --     | --                      | 1.0                                      | 4.5 | 7.0*                                   |
| BUW34    |        | 10                           | 125                   | 500                             | 400                             | --                      | --     | --                      | 1.5                                      | 5.0 | --                                     |
| BUW35    |        | 10                           | 125                   | 800                             | 400                             | --                      | --     | --                      | 1.5                                      | 5.0 | --                                     |
| BUW36    |        | 10                           | 125                   | 900                             | 450                             | --                      | --     | --                      | 1.5                                      | 5.0 | --                                     |
| BUW44    |        | 15                           | 175                   | 500                             | 400                             | --                      | --     | --                      | 3.0                                      | 10  | --                                     |
| BUW45    |        | 15                           | 175                   | 800                             | 400                             | --                      | --     | --                      | 1.5                                      | 10  | --                                     |
| BUW46    |        | 15                           | 175                   | 900                             | 450                             | --                      | --     | --                      | 1.5                                      | 10  | --                                     |
| BUX11    |        | 20                           | 150                   | 250                             | 200                             | 20                      | 60     | 6.0                     | 1.5                                      | 12  | 8.0                                    |
| BUX43    |        | 10                           | 120                   | 400                             | 325                             | 15                      | 60     | 3.0                     | 1.6                                      | 5.0 | 8.0                                    |
| BUX44    |        | 8.0                          | 120                   | 450                             | 400                             | 15                      | 45     | 2.0                     | 2.0                                      | 4.0 | 8.0                                    |
| BUX47    |        | 9.0                          | 125                   | 850                             | 400                             | --                      | --     | --                      | 3.0                                      | 9.0 | --                                     |
| BUX48    |        | 15                           | 175                   | 850                             | 400                             | --                      | --     | --                      | 5.0                                      | 15  | --                                     |
| BUX80    |        | 10                           | 100                   | 800                             | 400                             | 30*                     | --     | 1.2                     | 3.0                                      | 8.0 | --                                     |
| BUY69A   |        | 10                           | 100                   | 1,000                           | 400                             | 15                      | --     | 2.5                     | 3.3                                      | 8.0 | 10*                                    |
| BUY69B   |        | 10                           | 100                   | 800                             | 325                             | 15                      | --     | 2.5                     | 3.3                                      | 8.0 | 10*                                    |

Shaded areas indicate Darlington.

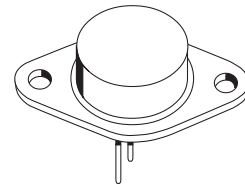
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(25-April 2005)

# Power Transistors

## TO-3 Case (Continued)



| TYPE NO.  |           | I <sub>C</sub><br>(A)<br>MAX | P <sub>D</sub><br>(W) | BV <sub>CEO</sub><br>**BV <sub>CEV</sub><br>(V)<br>MIN | BV <sub>CEO</sub><br>(V)<br>MIN | h <sub>FE</sub> |        | @ I <sub>C</sub><br>(A) | V <sub>CE(SAT)</sub> @ I <sub>C</sub> |     | f <sub>T</sub><br>*TYP<br>(MHz)<br>MIN |
|-----------|-----------|------------------------------|-----------------------|--|---------------------------------|-----------------|--------|-------------------------|---------------------------------------|-----|--|
| NPN       | PNP       |                              |                       |  |                                 | MIN             | MAX    |                         | (V)<br>MAX                            | (A) |  |
| BUY69C    |           | 10                           | 100                   | 500  | 200                             | 15              | --     | 2.5                     | 3.3                                   | 8.0 | 10*                                    |
| MJ802     | MJ4502    | 30                           | 200                   | 100  | 90                              | 25              | 100    | 7.5                     | 0.8                                   | 7.5 | 2.0                                    |
| MJ1000    | MJ 900    | 8.0                          | 90                    | 60   | 60                              | 1,000           | --     | 3.0                     | 4.0                                   | 8.0 | 6.0                                    |
| MJ1001    | MJ 901    | 8.0                          | 90                    | 80   | 80                              | 1,000           | --     | 3.0                     | 4.0                                   | 8.0 | 6.0                                    |
| MJ3000    | MJ2500    | 10                           | 150                   | 60   | 60                              | 1,000           | --     | 5.0                     | 4.0                                   | 10  | --                                     |
| MJ3001    | MJ2501    | 10                           | 150                   | 80   | 80                              | 1,000           | --     | 5.0                     | 4.0                                   | 10  | --                                     |
| MJ4033    | MJ4030    | 16                           | 150                   | 60   | 60                              | 1,000           | --     | 10                      | 4.0                                   | 16  | --                                     |
| MJ4034    | MJ4031    | 16                           | 150                   | 80   | 80                              | 1,000           | --     | 10                      | 4.0                                   | 16  | --                                     |
| MJ4035    | MJ4032    | 16                           | 150                   | 100  | 100                             | 1,000           | --     | 10                      | 4.0                                   | 16  | --                                     |
| MJ10012   | MJ6503    | 8.0                          | 125                   | 450**  | 400                             | 15              | --     | 2.0                     | 5.0                                   | 8.0 | --                                     |
| MJ10023†  |           | 10                           | 175                   | 600  | 400                             | 100             | 2,000  | 6.0                     | 2.5                                   | 10  | --                                     |
| MJ10023†  |           | 40                           | 250                   | 600**  | 400                             | 50              | 600    | 10                      | 5.0                                   | 40  | --                                     |
| MJ11012   | MJ11011   | 30                           | 200                   | 60   | 60                              | 1,000           | --     | 20                      | 4.0                                   | 30  | 4.0                                    |
| MJ11014   | MJ11013   | 30                           | 200                   | 90   | 90                              | 1,000           | --     | 20                      | 4.0                                   | 30  | 4.0                                    |
| MJ11016   | MJ11015   | 30                           | 200                   | 120  | 120                             | 1,000           | --     | 20                      | 4.0                                   | 30  | 4.0                                    |
| PMD10K40  | PMD11K40  | 12                           | 150                   | 40   | 40                              | 800             | 20,000 | 6.0                     | 2.0                                   | 12  | 4.0                                    |
| PMD10K60  | PMD11K60  | 12                           | 150                   | 60   | 60                              | 800             | 20,000 | 6.0                     | 2.0                                   | 6.0 | 4.0                                    |
| PMD10K80  | PMD11K80  | 12                           | 150                   | 80   | 80                              | 800             | 20,000 | 6.0                     | 2.0                                   | 6.0 | 4.0                                    |
| PMD10K100 | PMD11K100 | 12                           | 150                   | 100  | 100                             | 800             | 20,000 | 6.0                     | 2.0                                   | 6.0 | 4.0                                    |
| PMD12K40  | PMD13K40  | 8.0                          | 100                   | 40   | 40                              | 800             | 20,000 | 4.0                     | 2.0                                   | 4.0 | 4.0                                    |
| PMD12K60  | PMD13K60  | 8.0                          | 100                   | 60   | 60                              | 800             | 20,000 | 4.0                     | 2.0                                   | 4.0 | 4.0                                    |
| PMD12K80  | PMD13K80  | 8.0                          | 100                   | 80   | 80                              | 800             | 20,000 | 4.0                     | 2.0                                   | 4.0 | 4.0                                    |
| PMD12K100 | PMD13K100 | 8.0                          | 100                   | 100  | 100                             | 800             | 20,000 | 4.0                     | 2.0                                   | 4.0 | 4.0                                    |
| PMD1601K  | PMD1701K  | 20                           | 180                   | 60   | 60                              | 750             | 20,000 | 10                      | 2.0                                   | 10  | 4.0                                    |
| PMD1602K  | PMD1702K  | 20                           | 180                   | 80   | 80                              | 750             | 20,000 | 10                      | 2.0                                   | 10  | 4.0                                    |
| PMD1603K  | PMD1703K  | 20                           | 180                   | 100  | 100                             | 750             | 20,000 | 10                      | 2.0                                   | 10  | 4.0                                    |
| PMD16K60  | PMD17K60  | 20                           | 200                   | 60   | 60                              | 800             | 20,000 | 10                      | 2.0                                   | 10  | 4.0                                    |
| PMD16K80  | PMD17K80  | 20                           | 200                   | 80   | 80                              | 800             | 20,000 | 10                      | 2.0                                   | 10  | 4.0                                    |
| PMD16K100 | PMD17K100 | 20                           | 200                   | 100  | 100                             | 800             | 20,000 | 10                      | 2.0                                   | 10  | 4.0                                    |
| PMD18K60  | PMD19K60  | 30                           | 225                   | 60   | 60                              | 800             | 20,000 | 15                      | 2.0                                   | 15  | 4.0                                    |
| PMD18K80  | PMD19K80  | 30                           | 225                   | 80   | 80                              | 800             | 20,000 | 15                      | 2.0                                   | 15  | 4.0                                    |
| PMD18K100 | PMD19K100 | 30                           | 225                   | 100  | 100                             | 800             | 20,000 | 15                      | 2.0                                   | 15  | 4.0                                    |
| SE9303    | SE9403    | 10                           | 100                   | 60   | 60                              | 1,000           | --     | 7.5                     | 2.5                                   | 7.5 | 1.0                                    |
| SE9304    | SE9404    | 10                           | 100                   | 80   | 80                              | 1,000           | --     | 7.5                     | 2.5                                   | 7.5 | 1.0                                    |
| SE9305    | SE9405    | 10                           | 100                   | 100  | 100                             | 1,000           | --     | 7.5                     | 2.5                                   | 7.5 | 1.0                                    |

Shaded areas indicate Darlington.  
 † Uses 60 mil leads.  
 See mechanical specifications on page 209

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