

# DIODES INC. Diodes



This product is RoHS compliant.



## HIGH SPEED SWITCHING DIODES

For quantities of 1000 and up, call for quote.

| MOUSER STOCK NO.   | Diodes Inc. Part No. | Package      | Configuration            | V <sub>RRM</sub> | Power Dissipation | T <sub>rr</sub> | V <sub>F</sub> | I <sub>R</sub> | V <sub>R</sub> | Total Capacitance | Price Each |      |      |      |
|--------------------|----------------------|--------------|--------------------------|------------------|-------------------|-----------------|----------------|----------------|----------------|-------------------|------------|------|------|------|
|                    |                      |              |                          |                  |                   |                 |                |                |                |                   | 1          | 10   | 100  | 500  |
| 621-1N4148WT       | 1N4148WT             | SOD-523      | Single                   | 100V             | 150mW             | 4ns             | 0.715V         | 1µA            | 75V            | 2pF               | .38        | .28  | .144 | .108 |
| 621-BAV19W-F       | BAV19W-F             | SOD-123      | Single                   | 100V             | 250mW             | 50ns            | 1V             | 0.1µA          | 120V           | 5pF               | .42        | .31  | .16  | .12  |
| 621-1N4148W-F      | 1N4148W-F            | SOD-123      | Single                   | 100V             | 400mW             | 4ns             | 1V             | 1µA            | 75V            | 2pF               | .44        | .30  | .15  | .112 |
| 621-BAV16W-F       | BAV16W-F             | SOD-123      | Single                   | 100V             | 400mW             | 4ns             | 1V             | 1µA            | 100V           | 2pF               | .44        | .30  | .20  | .112 |
| 621-BAS19W-7-F     | BAS19W-7-F           | SOT-323      | Single                   | 120V             | 200mW             | 50ns            | 1V             | .1µA           | 120V           | 5pF               | .46        | .338 | .238 | .13  |
| 621-BAV116W-F      | BAV116W-F            | SOD-123      | Single                   | 130V             | 250mW             | 300ns           | 1.1V           | 0.005µA        | 75V            | 2.4pF             | .38        | .28  | .19  | .108 |
| 621-BAV20W-F       | BAV20W-F             | SOD-123      | Single                   | 150V             | 250mW             | 50ns            | 1V             | 0.1µA          | 200V           | 5pF               | .42        | .31  | .16  | .12  |
| 621-BAV21W-F       | BAV21W-F             | SOD-123      | Single                   | 200V             | 250mW             | 50ns            | 1V             | 0.1µA          | 250V           | 5pF               | .42        | .31  | .22  | .12  |
| 621-BAV21WS-F      | BAV21WS-F            | SOD-323      | Single                   | 250V             | 200mW             | 50ns            | 1V             | 0.1µA          | 250V           | 5pF               | .39        | .30  | .216 | .126 |
| 621-BAS21-F        | BAS21-F              | SOT-23       | Single                   | 250V             | 350mW             | 50ns            | 1V             | 0.1µA          | 250V           | 5pF               | .38        | .28  | .19  | .108 |
| 621-BAV3004W-F     | BAV3004W-F           | SOD-323      | Single                   | 350V             | 400mW             | 50ns            | 1V             | 0.1µA          | 240V           | 5pF               | .45        | .36  | .216 | .162 |
| 621-1N4148WS-F     | 1N4148WS-F           | SOD-323      | Single                   | 75V              | 200mW             | 4ns             | 1V             | 1µA            | 75V            | 2pF               | .44        | .30  | .15  | .112 |
| 621-1N4448WS-F     | 1N4448WS-F           | SOD-323      | Single                   | 75V              | 200mW             | 4ns             | 1V             | 2.5µA          | 75V            | 4pF               | .44        | .30  | .15  | .112 |
| 621-BAS16W-F       | BAS16W-F             | SOT-323      | Single                   | 75V              | 200mW             | 4ns             | 1V             | 1µA            | 75V            | 2pF               | .39        | .27  | .135 | .10  |
| 621-BAS16-F        | BAS16-F              | SOT-23       | Single                   | 75V              | 350mW             | 4ns             | 1V             | 1µA            | 75V            | 2pF               | .33        | .22  | .15  | .084 |
| 621-MMBD4148-F     | MMBD4148-F           | SOT-23       | Single                   | 75V              | 350mW             | 4ns             | 1V             | 1µA            | 75V            | 2pF               | .33        | .22  | .112 | .084 |
| 621-MMBD914-7-F    | MMBD914-7-F          | SOT-23       | Single                   | 75V              | 350mW             | 4ns             | 1V             | 1µA            | 75V            | 2pF               | .33        | .22  | .112 | .084 |
| 621-1N4448W-F      | 1N4448W-F            | SOD-123      | Single                   | 75V              | 400mW             | 4ns             | 1V             | 2.5µA          | 75V            | 4pF               | .44        | .30  | .15  | .112 |
| 621-1N4148-T       | 1N4148-T             | DO-35        | Single                   | 75V              | 500mW             | 4ns             | 1V             | 5µA            | 75V            | 4pF               | .11        | .07  | .05  | .025 |
| 621-1N4448HWT-F    | 1N4448HWT-F          | SOD-523      | Single                   | 80V              | 150mW             | 4ns             | 0.72V          | 0.1µA          | 80V            | 3pF               | .38        | .28  | .19  | .108 |
| 621-MMBD4448H-F    | MMBD4448H-F          | SOT-23       | Single                   | 80V              | 350mW             | 4ns             | 0.72V          | 0.1µA          | 70V            | 3.5pF             | .33        | .22  | .112 | .084 |
| 621-PD3SD2580-7    | PD3SD2580-7          | PowerDI™-323 | Single                   | 80V              | 500mW             | 4ns             | 1.25V          | 0.1µA          | 80V            | 1.5pF             | .39        | .30  | .22  | .126 |
| 621-BAS116-F       | BAS116-F             | SOT-23       | Single                   | 85V              | 250mW             | 300ns           | 1.1V           | 0.005µA        | 75V            | 2pF               | .34        | .25  | .15  | .112 |
| 621-BAV23A-F       | BAV23A-F             | SOT-23       | Dual, Com. Anode         | 250V             | 350mW             | 50ns            | 1V             | 0.1µA          | 250V           | 5pF               | .42        | .31  | .16  | .12  |
| 621-BAW56-F        | BAW56-F              | SOT-23       | Dual, Com. Anode         | 75V              | 350mW             | 4ns             | 1V             | 2.5µA          | 75V            | 2pF               | .38        | .28  | .19  | .108 |
| 621-BAV23C-F       | BAV23C-F             | SOT-23       | Dual, Com. Cathode       | 250V             | 350mW             | 50ns            | 1V             | 0.1µA          | 250V           | 5pF               | .42        | .31  | .16  | .12  |
| 621-BAV70-F        | BAV70-F              | SOT-23       | Dual, Com. Cathode       | 75V              | 350mW             | 4ns             | 1V             | 2.5µA          | 75V            | 2pF               | .38        | .26  | .18  | .098 |
| 621-BAV170-F       | BAV170-F             | SOT-23       | Dual, Com. Cathode       | 85V              | 250mW             | 300ns           | 1.1V           | 0.005µA        | 75V            | 2pF               | .42        | .31  | .22  | .12  |
| 621-MMBD2004S-F    | MMBD2004S-F          | SOT-23       | Dual, Series             | 300V             | 350mW             | 50ns            | 1V             | 0.1µA          | 240V           | 5pF               | .23        | .18  | .14  | .11  |
| 621-MMBD3004S-F    | MMBD3004S-F          | SOT-23       | Dual, Series             | 350V             | 350mW             | 50ns            | 1.25V          | 0.1µA          | 240V           | 1pF               | .42        | .31  | .22  | .12  |
| 621-BAV99W-F       | BAV99W-F             | SOT-323      | Dual, Series             | 75V              | 200mW             | 4ns             | 1V             | 2.5µA          | 75V            | 2pF               | .40        | .33  | .21  | .115 |
| 621-BAV99-F        | BAV99-F              | SOT-23       | Dual, Series             | 75V              | 350mW             | 4ns             | 1V             | 2.5µA          | 75V            | 2pF               | .44        | .30  | .15  | .112 |
| 621-BAV199-F       | BAV199-F             | SOT-23       | Dual, Series             | 85V              | 250mW             | 300ns           | 1.1V           | 0.005µA        | 75V            | 2pF               | .25        | .20  | .15  | .11  |
| 621-MMBD3004BRM-F  | MMBD3004BRM-7-F      | SOT-26       | Dual-Dual, Series        | 350V             | 350mW             | 50ns            | .87V           | .1µA           | 240V           | 5pF               | .67        | .54  | .345 | .277 |
| 621-BAV99DW-F      | BAV99DW-7-F          | SOT-363      | Dual-Dual, Series (Alt.) | 75V              | 200mW             | 4ns             | 1V             | 2.5µA          | 75V            | 2pF               | .50        | .40  | .30  | .18  |
| 621-SDA004-7       | SDA004-7             | SOT-363      | Dual-Dual, Series (Alt.) | 80V              | 200mW             | 4ns             | 1V             | 2.5µA          | 75V            | 2pF               | .99        | .79  | .506 | .407 |
| 621-BAV199DW-F     | BAV199DW-7-F         | SOT-363      | Dual-Dual, Series (Alt.) | 85V              | 200mW             | 300ns           | 0.9V           | .005µA         | 75V            | 2pF               | .55        | .44  | .264 | .198 |
| 621-BAS16TW-F      | BAS16TW-F            | SOT-363      | Triple, Isolated         | 75V              | 150mW             | 4ns             | 1V             | 1µA            | 75V            | 2pF               | .45        | .36  | .27  | .162 |
| 621-MMBD4448HTW-F  | MMBD4448HTW-7-F      | SOT-363      | Triple, Isolated         | 80V              | 200mW             | 4ns             | 1V             | .1µA           | 70V            | 3.5pF             | .50        | .40  | .24  | .18  |
| 621-MMBD4448HAQW-F | MMBD4448HAQW-7-F     | SOT-363      | Quad, Com. Anode         | 80V              | 200mW             | 4ns             | 1V             | .1µA           | 70V            | 3.5pF             | .60        | .48  | .36  | .277 |
| 621-MMBD4448HCQW-F | MMBD4448HCQW-7-F     | SOT-353      | Quad, Com. Cathode       | 80V              | 200mW             | 4ns             | 1V             | .1µA           | 70V            | 3.5pF             | .60        | .48  | .36  | .277 |

## SCHOTTKY BARRIER DIODES

For quantities of 1000 and up, call for quote.

| MOUSER STOCK NO. | Diodes Inc. Part No. | Package | Configuration             | V <sub>RRM</sub> | Power Dissipation | I <sub>FM</sub> | Fwd. Voltage Drop |                  | Max. Rev. Current |                  | Price Each |       |       |      |
|------------------|----------------------|---------|---------------------------|------------------|-------------------|-----------------|-------------------|------------------|-------------------|------------------|------------|-------|-------|------|
|                  |                      |         |                           |                  |                   |                 | V <sub>F</sub>    | @ I <sub>F</sub> | I <sub>R</sub>    | @ V <sub>R</sub> | 1          | 10    | 100   | 500  |
|                  |                      |         |                           |                  |                   |                 | 621-SDM20U30      | SDM20U30-7       | SOD-523           | Single           | 30V        | 150mW | 200mA | .35V |
| 621-BAT42WS-F    | BAT42WS-F            | SOD-323 | Single                    | 30V              | 200mW             | 200mA           | .40V              | 10mA             | .5µA              | 25V              | .64        | .51   | .368  | .296 |
| 621-BAT43W-F     | BAT43W-F             | SOD-123 | Single                    | 30V              | 200mW             | 200mA           | .33V              | 2mA              | .5µA              | 25V              | .60        | .48   | .288  | .216 |
| 621-BAT43WS-F    | BAT43WS-F            | SOD-323 | Single                    | 30V              | 200mW             | 200mA           | .33V              | 2mA              | .5µA              | 25V              | .64        | .51   | .38   | .264 |
| 621-BAT54-F      | BAT54-7-F            | SOT-23  | Single                    | 30V              | 200mW             | 200mA           | .32V              | 1mA              | 2µA               | 25V              | .50        | .40   | .30   | .18  |
| 621-BAT54WS-F    | BAT54WS-F            | SOD-323 | Single                    | 30V              | 200mW             | 200mA           | .50V              | 30mA             | 2µA               | 25V              | .80        | .64   | .48   | .37  |
| 621-SD107WS-F    | SD107WS-7-F          | SOD-323 | Single                    | 30V              | 250mW             | 100mA           | .55V              | 50mA             | 1µA               | 25V              | .95        | .75   | .567  | .388 |
| 621-SD101CWS-F   | SD101CWS-F           | SOD-323 | Single                    | 40V              | 200mW             | 15mA            | .39V              | 1mA              | .2µA              | 30V              | .62        | .50   | .37   | .237 |
| 621-SD103AWS-F   | SD103AWS-F           | SOD-323 | Single                    | 40V              | 200mW             | 350mA           | .37V              | 20mA             | 5µA               | 30V              | .60        | .48   | .36   | .247 |
| 621-BAS40-7-F    | BAS40-7-F            | SOT-23  | Single                    | 40V              | 350mW             | 200mA           | .38V              | 1mA              | 2µA               | 30V              | .64        | .51   | .38   | .264 |
| 621-SD103AW-F    | SD103AW-F            | SOD-123 | Single                    | 40V              | 400mW             | 350mA           | .37V              | 20mA             | 5µA               | 30V              | .52        | .42   | .31   | .189 |
| 621-SD103CW-F    | SD103CW-F            | SOD-123 | Single                    | 40V              | 400mW             | 350mA           | .37V              | 20mA             | 5µA               | 20V              | .52        | .42   | .31   | .189 |
| 621-SDM10U45-F   | SDM10U45-7-F         | SOD-523 | Single                    | 45V              | 150mW             | 300mA           | .55V              | 50mA             | 1µA               | 25V              | .81        | .64   | .48   | .333 |
| 621-SDM10K45-F   | SDM10K45-7-F         | SOD-323 | Single                    | 45V              | 200mW             | 100mA           | .45V              | 10mA             | 1µA               | 10V              | .60        | .48   | .36   | .277 |
| 621-SD101AWS-F   | SD101AWS-F           | SOD-323 | Single                    | 60V              | 200mW             | 15mA            | .41V              | 1mA              | .2µA              | 50V              | .62        | .50   | .30   | .225 |
| 621-SD101AW-F    | SD101AW-F            | SOD-123 | Single                    | 60V              | 400mW             | 15mA            | .41V              | 1mA              | .2µA              | 50V              | .47        | .38   | .228  | .171 |
| 621-1N5711WS-F   | 1N5711WS-F           | SOD-323 | Single                    | 70V              | 150mW             | 15mA            | .41V              | 1mA              | .2µA              | 50V              | .72        | .58   | .414  | .333 |
| 621-1N5711W-F    | 1N5711W-7-F          | SOD-123 | Single                    | 70V              | 333mW             | 15mA            | .41V              | 1mA              | .2µA              | 50V              | .70        | .56   | .336  | .252 |
| 621-BAT54A-F     | BAT54A-7-F           | SOT-23  | Dual, Com. Anode          | 30V              | 200mW             | 200mA           | .32V              | 1mA              | 2µA               | 25V              | .60        | .48   | .345  | .277 |
| 621-BAT54AW-F    | BAT54AW-7-F          | SOT-323 | Dual, Com. Anode          | 30V              | 200mW             | 200mA           | .32V              | 1mA              | 2µA               | 25V              | .72        | .58   | .414  | .333 |
| 621-BA570-06-F   | BA570-06-7-F         | SOT-23  | Dual, Com. Anode          | 70V              | 200mW             | 70mA            | .41V              | 1mA              | .1µA              | 50V              | .80        | .64   | .48   | .37  |
| 621-BAT54CT-F    | BAT54CT-7-F          | SOT-523 | Dual, Com. Cathode        | 30V              | 150mW             | 200mA           | .32V              | 1mA              | 2µA               | 25V              | .60        | .48   | .36   | .247 |
| 621-BAT54C-F     | BAT54C-7-F           | SOT-23  | Dual, Com. Cathode        | 30V              | 200mW             | 200mA           | .32V              | 1mA              | 2µA               | 25V              | .60        | .48   | .36   | .277 |
| 621-BAT54CW-F    | BAT54CW-7-F          | SOT-323 | Dual, Com. Cathode        | 30V              | 200mW             | 200mA           | .32V              | 1mA              | 2µA               | 25V              | .72        | .58   | .414  | .333 |
| 621-BAS40-05-F   | BAS40-05-7-F         | SOT-23  | Dual, Com. Cathode        | 40V              | 350mW             | 200mA           | .38V              | 1mA              | .2µA              | 30V              | .64        | .51   | .368  | .296 |
| 621-BA570-05-F   | BA570-05-7-F         | SOT-23  | Dual, Com. Cathode        | 70V              | 200mW             | 70mA            | .41V              | 1mA              | .1µA              | 50V              | .80        | .64   | .48   | .37  |
| 621-SDM40E20LS-F | SDM40E20LS-7-F       | SOT-23  | Dual, Series              | 20V              | 300mW             | 400mA           | .31V              | 100mA            | 100µA             | 10V              | .64        | .51   | .368  | .296 |
| 621-BAT54ST-F    | BAT54ST-7-F          | SOT-523 | Dual, Series              | 30V              | 150mW             | 200mA           | .32V              | 1mA              | 2µA               | 25V              | .81        | .64   | .48   | .333 |
| 621-BAT54S-F     | BAT54S-7-F           | SOT-23  | Dual, Series              | 30V              | 200mW             | 200mA           | .32V              | 1mA              | 2µA               | 25V              | .60        | .48   | .345  | .277 |
| 621-BAT54SW-F    | BAT54SW-7-F          | SOT-323 | Dual, Series              | 30V              | 200mW             | 200mA           | .32V              | 1mA              | 2µA               | 25V              | .72        | .58   | .414  | .333 |
| 621-BAS40-04T-F  | BAS40-04T-7-F        | SOT-523 | Dual, Series              | 40V              | 150mW             | 200mA           | .38V              | 1mA              | .2µA              | 30V              | .64        | .51   | .368  | .296 |
| 621-BAS40W-04-F  | BAS40W-04-7-F        | SOT-323 | Dual, Series              | 40V              | 200mW             | 200mA           | .38V              | 1mA              | .2µA              | 30V              | .80        | .64   | .46   | .37  |
| 621-BAS40-04-F   | BAS40-04-7-F         | SOT-23  | Dual, Series              | 40V              | 350mW             | 200mA           | .38V              | 1mA              | .2µA              | 30V              | .64        | .51   | .38   | .296 |
| 621-BA570-04-F   | BA570-04-7-F         | SOT-23  | Dual, Series              | 70V              | 200mW             | 70mA            | .41V              | 1mA              | .1µA              | 50V              | .80        | .64   | .48   | .37  |
| 621-BAT54BRW-F   | BAT54BRW-7-F         | SOT-363 | Dual-Dual, Series         | 30V              | 200mW             | 200mA           | .32V              | 1mA              | 2µA               | 25V              | .96        | .76   | .576  | .396 |
| 621-BA570W-04-F  | BA570W-04-7-F        | SOT-363 | Dual-Dual, Series (Alt.)  | 70V              | 200mW             | 70mA            | .41V              | 1mA              | .1µA              | 50V              | .88        | .70   | .506  | .407 |
| 621-BAT54TW-F    | BAT54TW-7-F          | SOT-323 | Triple, Isolated          | 30V              | 200mW             | 200mA           | .32V              | 1mA              | 2µA               | 25V              | .80        | .64   | .46   | .37  |
| 621-QSBT40-F     | QSBT40-7-F           | SOT-363 | Quad, Series (Rail Clamp) | 30V              | 200mW             | 200mA           | .35V              | 1mA              | 2µA               | 25V              | 1.09       | .86   | .66   | .483 |