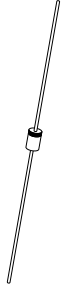




# Schottky Rectifiers

## 1.0 to 75 Amperes 20 to 100 Volts

| $I_O$ (AMPS)      | 1.0   |          | 2.0   | 3.0   |
|-------------------|---|----------|---|---|
| @ $T_L$ (°C)      | 100   | 75       | 75  | 95  |
| $I_{FSM}$ (AMPS)  | 25  | 30       | 50  | 80  |
|                   |  |          |  |  |
| CASE              | DO-41*  |          | DO-15   | DO-201AD  |
| $V_{RRM}$ (VOLTS) |   |          |   |   |
| 20                | 1N5817  | CRSH1-2  | CRSH2-2   | 1N5820  |
| 30                | 1N5818  | CRSH1-3  | CRSH2-3   | 1N5821  |
| 40                | 1N5819  | CRSH1-4  | CRSH2-4   | 1N5822  |
| 50                |   | CRSH1-5  | CRSH2-5   |   |
| 60                |   | CRSH1-6  | CRSH2-6   |   |
| 80                |   | CRSH1-8  | CRSH2-8   |   |
| 100               |   | CRSH1-10 | CRSH1-10  |   |

| $V_F$ MAX @ $I_F = I_O$ |       |       |       |        |
|-------------------------|-------|-------|-------|--------|
| 20V                     | 0.45V | 0.50V | 0.50V | 0.475V |
| 30V                     | 0.55V | 0.50V | 0.50V | 0.500V |
| 40V                     | 0.60V | 0.50V | 0.50V | 0.525V |
| 50V                     |       | 0.70V | 0.70V |        |
| 60V                     |       | 0.70V | 0.70V |        |
| 80V & 100V              |       | 0.85V | 0.85V |        |

| $I_R$ MAX @ $V_{RRM}$ | 1.0mA | 0.5mA | 0.5mA | 2.0mA |
|-----------------------|-------|-------|-------|-------|
|-----------------------|-------|-------|-------|-------|


\* Also available in DO-41SP Case (0.6mm lead diameter) with Radial Tape and Reel (DO-41SP-RPCU). See pages 239 thru 240.

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# Schottky Rectifiers

(Continued)

| $I_O$ (AMPS)      | 3.0   | 5.0    |         | 8.0      |
|-------------------|---|--------|---------|----------|
| @ $T_A$ (°C)      | 25  | 25     | 25      | 25       |
| $I_{FSM}$ (AMPS)  | 100   | 250    | 250     | 250      |
| CASE              | <br>DO-201AD |        |         |          |
| $V_{RRM}$ (VOLTS) |   |        |         |          |
| 20                | CRSH3-2   | CN5823 | CRSH5-2 | CRSH8A-2 |
| 30                | CRSH3-3   | CN5824 | CRSH5-3 | CRSH8A-3 |
| 40                | CRSH3-4   | CN5825 | CRSH5-4 | CRSH8A-4 |
| 50                | CRSH3-5   |        | CRSH5-5 |          |
| 60                | CRSH3-6   |        | CRSH5-6 |          |
| 80                | CRSH3-8   |        |         |          |
| 100               | CRSH3-10  |        |         |          |

| $V_F$ MAX @ $I_F = I_O$ |                  |                  |                  |                  |
|-------------------------|------------------|------------------|------------------|------------------|
| 20V                     | 0.50V MAX @ 3.0A | 0.45V MAX @ 5.0A | 0.57V MAX @ 5.0A | 0.55V MAX @ 8.0A |
| 30V                     | 0.50V MAX @ 3.0A | 0.45V MAX @ 5.0A | 0.57V MAX @ 5.0A | 0.55V MAX @ 8.0A |
| 40V                     | 0.50V MAX @ 3.0A | 0.45V MAX @ 5.0A | 0.57V MAX @ 5.0A | 0.55V MAX @ 8.0A |
| 50V                     | 0.75V MAX @ 3.0A |                  | 0.70V MAX @ 5.0A |                  |
| 60V                     | 0.75V MAX @ 3.0A |                  | 0.70V MAX @ 5.0A |                  |
| 80V                     | 0.85V MAX @ 3.0A |                  |                  |                  |
| 100V                    | 0.85V MAX @ 3.0A |                  |                  |                  |

| $I_R$ MAX @ $V_{RRM}$ | 0.5mA | 10mA | 10mA | 10mA |
|-----------------------|-------|------|------|------|
|                       |       |      |      |      |

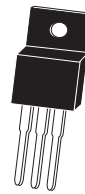
# Full Pak Schottky Rectifiers

TO-220FP

8.0 to 16 Amperes

40 to 100 Volts

**FULL  
PAK**



Top View



Bottom View

### Full Pak:

- Fully insulated plastic case.
- Suitable for automatic insertion.
- No mica insulator required.
- Does not require non-conductive nylon hardware.
- Can be easily mounted with metal screw or rivet.

| $I_O$ (AMPS)<br>@ $T_C$ (°C) | 8.0                    | 16              |
|------------------------------|------------------------|-----------------|
| $I_{FSM}$ (AMPS)             | 150                    | 150             |
| <b>CASE</b>                  | <p>TO-220FP 2 LEAD</p> | <p>TO-220FP</p> |
| $V_{RRM}$ (Volts)            |                        |                 |
| 40                           | CRSH8-40FP             | CRSH16D-40FP    |
| 60                           | CRSH8-60FP             | CRSH16D-60FP    |
| 100                          | CRSH8-100FP            | CRSH16D-100FP   |



| $V_F$ MAX @ $I_F = I_O$<br>@ $T_C = 125^\circ\text{C}$ |       |       |
|--|-------|-------|
| 40V  | 0.57V | 0.72V |
| 60V  | 0.65V | 0.85V |
| 100V   | 0.75V | 1.00V |

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# Schottky Rectifiers

(Continued)

| $I_O$ (AMPS)      | 25   | 35       | 75   |
|-------------------|--|----------|--|
| @ $T_C$ (°C)      | 150  | 150      | 120  |
| $I_{FSM}$ (AMPS)  | 800  | 600      | 1200   |
| <b>CASE</b>       | <br>DO-4* |          | <br>DO-5* |
| $V_{RRM}$ (VOLTS) |  |          |  |
| 20                | CRSH25-2   |          |  |
| 30                | CRSH25-3   | CRSH35-3 | CRSH75-3   |
| 40                |  | CRSH35-4 | CRSH75-4   |
| 50                |  | CRSH35-5 | CRSH75-5   |

| $V_F$ MAX @ $I_F=I_O$ |                 |                 |                 |
|-----------------------|-----------------|-----------------|-----------------|
| 20V                   | 0.58V MAX @ 25A |                 |                 |
| 30V                   | 0.58V MAX @ 25A | 0.63V MAX @ 35A | 0.70V MAX @ 75A |
| 40V                   |                 | 0.63V MAX @ 35A | 0.70V MAX @ 75A |
| 50V                   |                 | 0.63V MAX @ 35A | 0.70V MAX @ 75A |

| $I_R$ MAX @ $V_{RRM}$ | 2.0mA | 2.0mA | 2.0mA |
|-----------------------|-------|-------|-------|
|-----------------------|-------|-------|-------|

\* Standard polarity is cathode to case. For reverse polarity add "R" suffix to part number.