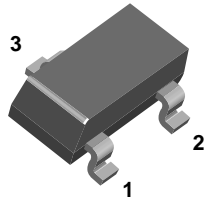


# BAR43/A/C/S

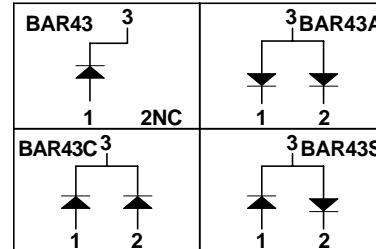


SOT-23



**MARKING**  
BAR43 D95 BAR43A DB1  
BAR43C DB2 BAR43S DA5

### Connection Diagrams



## Schottky Diodes

### Absolute Maximum Ratings\* T<sub>A</sub> = 25°C unless otherwise noted

| Symbol             | Parameter   | Value       | Units |
|--------------------|---|-------------|-------|
| V <sub>RRM</sub>   | Maximum Repetitive Reverse Voltage                                    | 30          | V     |
| I <sub>F(AV)</sub> | Average Rectified Forward Current                                     | 200         | mA    |
| I <sub>FSM</sub>   | Non-repetitive Peak Forward Surge Current<br>Pulse Width = 1.0 second | 750         | mA    |
| T <sub>stg</sub>   | Storage Temperature Range   | -55 to +150 | °C    |
| T <sub>J</sub>     | Operating Junction Temperature  | 150         | °C    |

\*These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

\*\*Mounted on ceramic substrate 10mm x 8mm x 0.6mm.

### Thermal Characteristics

| Symbol           | Parameter                               | Value | Units |
|------------------|---|-------|-------|
| P <sub>D</sub>   | Power Dissipation                       | 290   | mW    |
| R <sub>θJA</sub> | Thermal Resistance, Junction to Ambient | 430   | °C/W  |

### Electrical Characteristics T<sub>A</sub> = 25°C unless otherwise noted

| Symbol          | Parameter                       | Test Conditions  | Min | Max               | Units         |
|-----------------|---------------------------------|--|-----|-------------------|---------------|
| V <sub>R</sub>  | Breakdown Voltage               | I <sub>R</sub> = 100 μA  | 30  |                   | V             |
| V <sub>F</sub>  | Forward Voltage                 | I <sub>F</sub> = 2.0 mA<br>I <sub>F</sub> = 15 mA<br>I <sub>F</sub> = 100 mA                 | 260 | 330<br>450<br>1.0 | mV<br>mV<br>V |
| I <sub>R</sub>  | Reverse Current                 | V <sub>R</sub> = 25 V<br>V <sub>R</sub> = 25 V, T <sub>A</sub> = 100°C                       |     | 0.5<br>100        | μA<br>μA      |
| t <sub>tr</sub> | Reverse Recovery Time           | I <sub>F</sub> = I <sub>R</sub> = 10 mA, I <sub>RR</sub> = 1.0 mA,<br>R <sub>L</sub> = 100 Ω |     | 5.0               | ns            |
|                 | Minimum Detection Recovery Time | I <sub>F</sub> = I <sub>R</sub> = 10 mA, I <sub>RR</sub> = 1.0 mA,<br>R <sub>L</sub> = 100 Ω |     | 80%               |               |

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