SR220 THRU SR2100

SCHOTTKY BARRIER RECTIFIERS
Reverse Voltage – 20 to 100 Volts
Forward Current – 2.0 Amperes

Features

- Guard ring for overvoltage protection
- Low power loss, high efficiency
- High current capability, low forward voltage drop
- High surge capability
- Metal silicon junction, majority carrier conduction

Mechanical Data

- Case: Molded plastic, DO-15.
- Terminals: Axial leads, solderable per MIL-STD-750, method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any

Maximum Ratings and Characteristics

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate by 20%.

<table>
<thead>
<tr>
<th>Symbol</th>
<th>SR 220</th>
<th>SR 230</th>
<th>SR 240</th>
<th>SR 250</th>
<th>SR 260</th>
<th>SR 280</th>
<th>SR 2100</th>
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<td>30</td>
<td>40</td>
<td>50</td>
<td>60</td>
<td>80</td>
<td>100</td>
<td>V</td>
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<td>21</td>
<td>28</td>
<td>35</td>
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<td>57</td>
<td>71</td>
<td>V</td>
</tr>
<tr>
<td>V_{DC}</td>
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<td>30</td>
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<td></td>
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<td>°C</td>
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</table>

1) Pulse test: 300µs pulse width, 1% duty cycle
2) Thermal resistance from junction to lead, and/or to ambient P.C.B mounted with 0.375"(9.5mm) lead length with 1.5 X 1.5"(38mm X 38mm) copper pads
3) Measure at 1MHz and reverse voltage of 4V.
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RATINGS AND CHARACTERISTIC CURVES SR220 THRU SR2100

FIG.1-FORWARD CURRENT DERATING CURVE

FIG.2-MAXIMUM NON-REPE TITIVE PEAK FORWARD SURGE CURRENT

FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

FIG.4-TYPICAL REVERSE CHARACTERISTICS

FIG.5-TYPICAL JUNCTION CAPACITANCE

SEMTECH ELECTRONICS LTD.
(Subsidiary of Semtech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)

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