RL251 THRU RL257

GENERAL PURPOSE PLASTIC RECTIFIERS
Reverse Voltage – 50 to 1000 Volts
Forward Current – 2.5 Amperes

Features
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- High surge current capability.
- 2.5 ampere operation at $T_A=75^\circ C$ with no thermal runaway.
- Low reverse leakage.
- Construction utilizes void-free molded plastic technique.
- High temperature soldering guaranteed:
  - $250^\circ C/10$ seconds, $0.375"(9.5mm)$ lead length,
  - 5 lbs (2.3kg) tension.

Mechanical Data
- **Case**: Molded plastic, R-3
- **Terminals**: Plated axial leads, solderable per MIL-STD-750, method 2026
- **Polarity**: Color band denotes cathode end.
- **Mounting Position**: Any.

Absolute Maximum Ratings and Characteristics @ $25^\circ C$ unless otherwise specified.

<table>
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<tr>
<th>Symbol</th>
<th>$V_{RPM}$</th>
<th>$V_{RMS}$</th>
<th>$V_{DC}$</th>
<th>$I_{AV}$</th>
<th>$I_{FSM}$</th>
<th>$V_f$</th>
<th>$I_{R}$</th>
<th>$R_{PJA}$</th>
<th>$C_j$</th>
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<td>-65 to +175</td>
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</table>

Notes:
1. Measured at 1MHZ and applied reverse voltage of 4volts
2. Pulse test: pulse width 300uSec, Duty cycle 1%.

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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