





**Solid State Devices, Inc.**

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**SHF1204 & SHF1204SMS  
 thru  
 SHF1209 & SHF1209SMS**

| Electrical Characteristic   | Symbol   | Max      | Units    |
|---|----------|----------|----------|
| <b>Instantaneous Forward Voltage Drop</b><br>( $I_F = 1.2A_{DC}$ , $T_A = 25^\circ C$ ; pulsed)   | $V_F$    | 1.7      | $V_{DC}$ |
| <b>Instantaneous Forward Voltage Drop</b><br>( $I_F = 2A_{DC}$ , $T_A = 25^\circ C$ ; pulsed)   | $V_F$    | 1.9      | $V_{DC}$ |
| <b>Reverse Leakage Current</b><br>(Rated $V_R$ , $T_A = 25^\circ C$ ; pulsed)   | $I_R$    | 10       | $\mu A$  |
| <b>Reverse Leakage Current</b><br>(Rated $V_R$ , $T_A = 100^\circ C$ ; pulsed)  | $I_R$    | 1        | mA       |
| <b>Junction Capacitance</b><br>( $V_R = 10V_{DC}$ , $T_A = 25^\circ C$ , $f = 1MHz$ )   | $C_J$    | 22       | pF       |
| <b>Reverse Recovery Time</b><br>( $I_F = 500mA$ , $I_R = 1A$ , $I_{RR} = 250mA$ , $T_A = 25^\circ C$ )<br>( $I_F = 500mA$ , $I_R = 1A$ , $I_{RR} = 250mA$ , $T_A = 100^\circ C$ ) | $t_{RR}$ | 40<br>80 | nsec     |

**Case Outline: (Axial)**

| DIM | MIN    | MAX    |
|-----|--------|--------|
| A   | 0.100" | 0.130" |
| B   | 0.130" | 0.180" |
| C   | 0.027" | 0.033" |
| D   | 1.00"  | --     |

**Case Outline: (SMS)**

| DIM | MIN    | MAX    |
|-----|--------|--------|
| A   | 0.127" | 0.140" |
| B   | 0.180" | 0.230" |
| C   | 0.020" | 0.030" |
| D   | 0.002" | --     |