|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| RDSON  Static Drain to Source | ON Resistance @ TA 25°C | @ VIN = 5.5 V | -- | 28.5 | 32.0 | mΩ |
|  |  | @ VIN = 3.3 V | -- | 36.4 | 40.0 |  |
|  |  | @ VIN = 2.5 V | -- | 44.3 | 49.0 |  |
|  |  | @ VIN = 1.8 V | -- | 60.8 | 65.0 |  |
|  |  | @ VIN = 1.5 V | -- | 77.6 | 82.0 |  |
| RDSON  Static Drain to Source | ON Resistance @ TA 85°C | @ VIN = 5.5 V | -- | 34.0 | 36.0 | mΩ |
|  |  | @ VIN = 3.3 V | -- | 43.8 | 46.0 |  |
|  |  | @ VIN = 2.5 V | -- | 53.3 | 56.0 |  |
|  |  | @ VIN = 1.8 V | -- | 72.2 | 76.0 |  |
|  |  | @ VIN = 1.5 V | -- | 90.7 | 94.0 |  |
| IDS | Operating Current | VIN = 1.5 V to 5.0 V | -- | -- | 1.0 | A |
| TOn\_Delay | PWR\_SW\_ON pin Delay Time | 50% PWR\_SW\_ON to Ramp Begin, VIN = 5 V, VOUT\_Cap = 0.1 µF, RL = 10 Ω | 12.0 | 15.0 | 18.5 | µs |
|  |  | 50% PWR\_SW\_ON to Ramp Begin, VIN = 3.3 V, VOUT\_Cap = 0.1 µF, RL = 10 Ω | 17.0 | 22.0 | 30.0 |  |
|  |  | 50% PWR\_SW\_ON to Ramp Begin, VIN = 1.5 V, VOUT\_Cap = 0.1 µF, RL = 10 Ω | 44.0 | 55.0 | 76.0 |  |
| TTotal\_On | Total Turn On Time | 50% PWR\_SW\_ON to 90% VOUT, VIN = 5 V, VOUT\_Cap = 0.1 µF, RL = 10 Ω | 114 | 122 | 134 | µs |
|  |  | 50% PWR\_SW\_ON to 90% VOUT, VIN = 3.3 V, VOUT\_Cap = 0.1 µF, RL = 10 Ω | 146 | 156 | 176 |  |
|  |  | 50% PWR\_SW\_ON to 90% VOUT, VIN = 1.5 V, VOUT\_Cap = 0.1 µF, RL = 10 Ω | 292 | 332 | 399 |  |
| TRISE | Rise Time | 10% VOUT to 90% VOUT, VIN = 5 V, VOUT\_Cap = 0.1 µF, RL = 10 Ω | 92 | 97 | 107 | µs |
|  |  | 10% VOUT to 90% VOUT, VIN = 3.3 V, VOUT\_Cap = 0.1 µF, RL = 10 Ω | 116 | 120 | 131 |  |
|  |  | 10% VOUT to 90% VOUT, VIN = 1.5 V, VOUT\_Cap = 0.1 µF, RL = 10 Ω | 228 | 253 | 296 |  |
| RDIS | Discharge Resistance | VIN = 1.5 V to 5.5 V, VOUT = 0.4 V Input Bias | 65 | 80 | 400 | Ω |
| PWR\_SW  \_ON\_VIH | Initial Turn On Voltage | -- | 0.85 | -- | VIN  or VDD | V |
| PWR\_SW  \_ON\_VIL | Low Input Voltage on  PWR\_SW\_ON pin | -- | -0.3 | 0 | 0.3 | V |
| TDelay\_Off | Off Delay Time | 50% PWR\_SW\_ON to VOUT Fall, VIN = 5 V, RL =10 Ω | 6.2 | 6.5 | 7.0 | µs |

**Tape and Reel Specifications**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Package Type** | **# of Pins** | **Nominal**  **Package**  **Size (MM)** | **Max Units** | | **Reel & Hub Size**  **(MM)** | **Leader (min)** | | **Trailer (min)** | | **Tape**  **Width**  **(MM)** | **Part**  **Pitch**  **(MM)** |
| **per reel** | **per box** | **Pockets** | **Length (MM)** | **Pockets** | **Length**  **(MM)** |
| MSTQFN 22L  2x2.2 mm  0.4P Green | 22 | 2 x 2.2x 0.55 | 3,000 | 3,000 | 178 / 60 | 100 | 400 | 100 | 400 | 8 | 4 |

Carrier Tape Drawing and Dimensions

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Package Type | Pocket BTM Length  **(MM)** | Pocket BTM Width  **(MM)** | Pocket Depth  **(MM)** | Index Hole Pitch  **(MM)** | Pocket Pitch  **(MM)** | Index Hole Diameter  **(MM)** | Index Hole to Tape Edge  **(MM)** | Index Hole to Pocket Center  **(MM)** | Tape Width  **(MM)** |
| A0 | B0 | K0 | P0 | P1 | D0 | E | F | W |
| MSTQFN 22L  2x2.2 mm  0.4P Green | 2.2 | 2.35 | 0.8 | 4 | 4 | 1.5 | 1.75 | 3.5 | 8 |
|  | | | | | | | | | | |

Refer to EIA-481 Specifications

**Tape and Reel Specifications**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Package Type** | **# of Pins** | **Nominal**  **Package**  **Size (MM)** | **Max Units** | | **Reel & Hub Size**  **(MM)** | **Leader (min)** | | **Trailer (min)** | | **Tape**  **Width**  **(MM)** | **Part**  **Pitch**  **(MM)** |
| **per reel** | **per box** | **Pockets** | **Length (MM)** | **Pockets** | **Length**  **(MM)** |
| STQFN 22L  2x3 mm  0.4P COL | 22 | 2 x 3 x 0.55 | 3,000 | 3,000 | 178 / 60 | 100 | 400 | 100 | 400 | 8 | 4 |

Carrier Tape Drawing and Dimensions

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Package Type | Pocket BTM Length  **(MM)** | Pocket BTM Width  **(MM)** | Pocket Depth  **(MM)** | Index Hole Pitch  **(MM)** | Pocket Pitch  **(MM)** | Index Hole Diameter  **(MM)** | Index Hole to Tape Edge  **(MM)** | Index Hole to Pocket Center  **(MM)** | Tape Width  **(MM)** |
| A0 | B0 | K0 | P0 | P1 | D0 | E | F | W |
| STQFN 22L  2x3 mm  0.4P COL | 2.2 | 3.15 | 0.76 | 4 | 4 | 1.5 | 1.75 | 3.5 | 8 |
|  | | | | | | | | | | |

Refer to EIA-481 Specifications