

Current

Voltage

Features

 $P\Lambda N$



2A

• Fast reverse recovery time

SEMI CONDUCTOR

Ideally suited for automatic assembly

1000 V

- Save space on printed circuit boards
- Ultra thin profile package for space constrained utilization
- UL recognition file number E111753
- Lead free in compliance with EU RoHS 2.0
- Halogen-free according to IEC 61249 standard

Mechanical Data

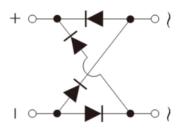
- Case : M4 Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 0.29 grams

Application

- QC/PD Charger
- General Console power
- NB Adapter
- Monitor Power
- Smart Speaker Power
- Slim Adapter

| Key Parameters | | | |
|---------------------|-------|--|--|
| Parameter | Value | | |
| V _{RRM} | 1000V | | |
| I _F (AV) | 2A | | |
| I _{FSM} | 100A | | |
| I _R | 5uA | | |
| T _{rr} | 250ns | | |
| Package | M4 | | |





RPMS210





Maximum Ratings and Thermal Characteristics (T_A = 25 °C unless otherwise noted)

| PARAMETER | SYMBOL | LIMIT | UNITS | |
|--|---------------------------|------------------|---------|------------------|
| Maximum Repetitive Peak Reverse Voltage | | Vrrm | 1000 | V |
| Maximum RMS Voltage | | Vrms | 700 | V |
| Maximum DC Blocking Voltage | | V _{DC} | 1000 | V |
| Maximum Average Forward Current | | IF(AV) | 2 | А |
| Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load | @ T _A = 25 °C | | 100 | |
| | @ T _A = 125 °C | IFSM | 80 | A |
| Peak Forward Surge Current : 1.0 ms Single Half Sine-Wave Superimposed On Rated Load | @ T _A = 25 °C | _ | 200 | |
| | @ T _A = 125 °C | IFSM | 160 | A |
| I^2 t rating for fusing (t = 8.3ms) | | l ² t | 41.5 | A ² S |
| Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 V$ | | CJ | 30 | pF |
| Maximum Reverse Recovery Time (Note 2) | | Trr | 250 | ns |
| | Reja | 50 | | |
| Typical Thermal Resistance (Note 1) | | R _{θJL} | 35 | °C/W |
| | R _{θJC} | 28 | | |
| Operating junction and storage temperature range | | TJ, TSTG | -55~150 | °C |

Electrical Characteristics (T_A = 25 °C unless otherwise noted)

| PARAMETER | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNITS | |
|-----------------|----------------|---|------|------|------|-------|--|
| Forward Voltage | VF | I _F = 1 A, T _J = 25 °C | - | - | 1.3 | V | |
| Reverse Current | I _R | $V_R = 1000 V, T_J = 25 \circ C$ | - | - | 5 | | |
| | | V _R = 1000 V,T _J = 125 °C | - | - | 100 | uA | |

NOTES :

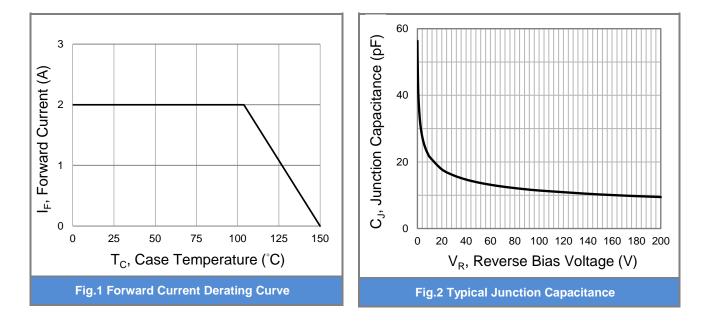
1. Mounted on a FR4,100x100x1.6mm ,2oz copper pad area.

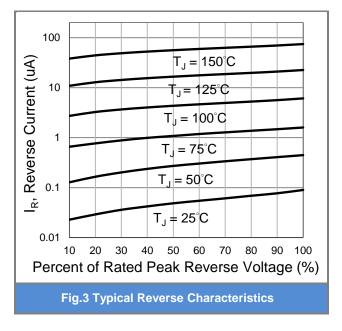
2. Measured with IF = 0.5 A, IR= 1 A, IRR = 0.25 A

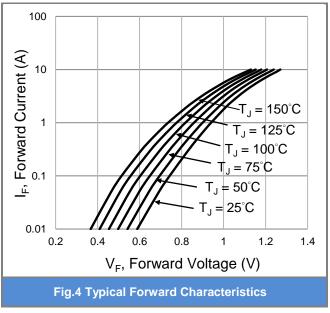


RPMS210

TYPICAL CHARACTERISTIC CURVES





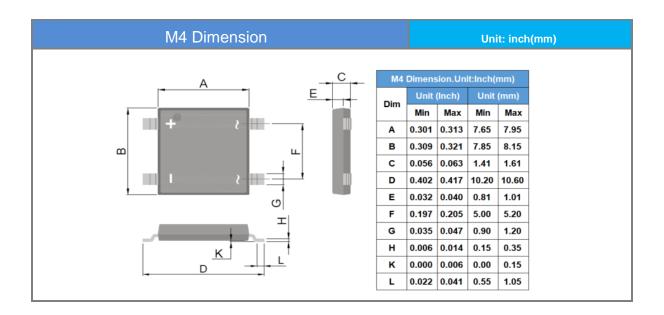


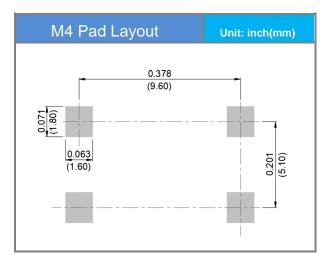


Product and Packing Information

| Part No. | Package Type | Packing Type | Marking |
|----------|--------------|-------------------|---------|
| RPMS210 | M4 | 3K pcs / 13" reel | RPMS210 |

Packaging Information & Mounting Pad Layout







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