

RJU6052SDPD

Single Diode Ultra Fast Recovery Diode

R07DS0379EJ0100

Rev.1.00

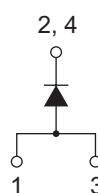
Apr 26, 2011

Features

- Ultra fast reverse recovery time: $t_{rr} = 25 \text{ ns typ.}$ (at $I_F = 10 \text{ A}$, $di/dt = -100 \text{ A}/\mu\text{s}$)
- Low forward voltage: $V_F = 2.5 \text{ V typ.}$ (at $I_F = 10 \text{ A}$)
- Low reverse current: $I_R = 1 \mu\text{A max.}$ (at $V_R = 600 \text{ V}$)

Outline

RENESAS Package code: PRSS0004ZJ-A
(Package name : TO-252)



1. Anode
2. Cathode
3. Anode
4. Cathode

Absolute Maximum Ratings

($T_a = 25^\circ\text{C}$)

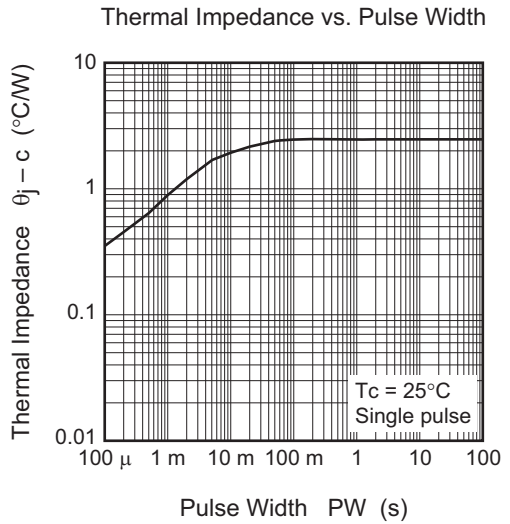
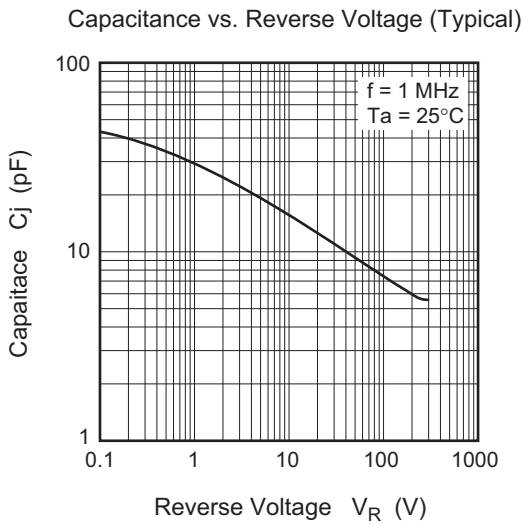
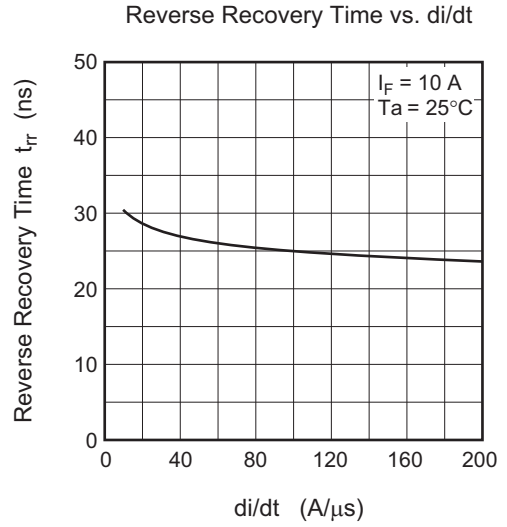
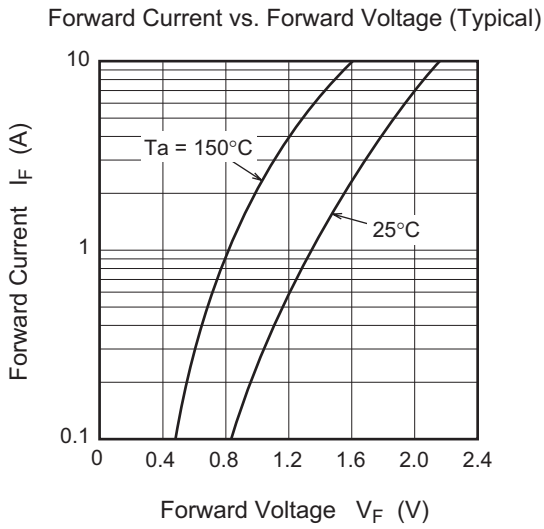
| Item | Symbol | Ratings | Unit |
|-------------------------------------|---------------------------|-------------|---------------------------|
| Maximum reverse voltage | V_{RM} | 600 | V |
| Continuous forward current | $T_C = 25^\circ\text{C}$ | I_F | 10 A |
| | $T_C = 100^\circ\text{C}$ | I_F | 5 A |
| Peak surge forward current | I_{FSM} | 30 | A |
| Junction to case thermal resistance | θ_{j-cd} | 2.45 | $^\circ\text{C}/\text{W}$ |
| Junction temperature | T_j | 150 | $^\circ\text{C}$ |
| Storage temperature | T_{stg} | -55 to +150 | $^\circ\text{C}$ |

Electrical Characteristics

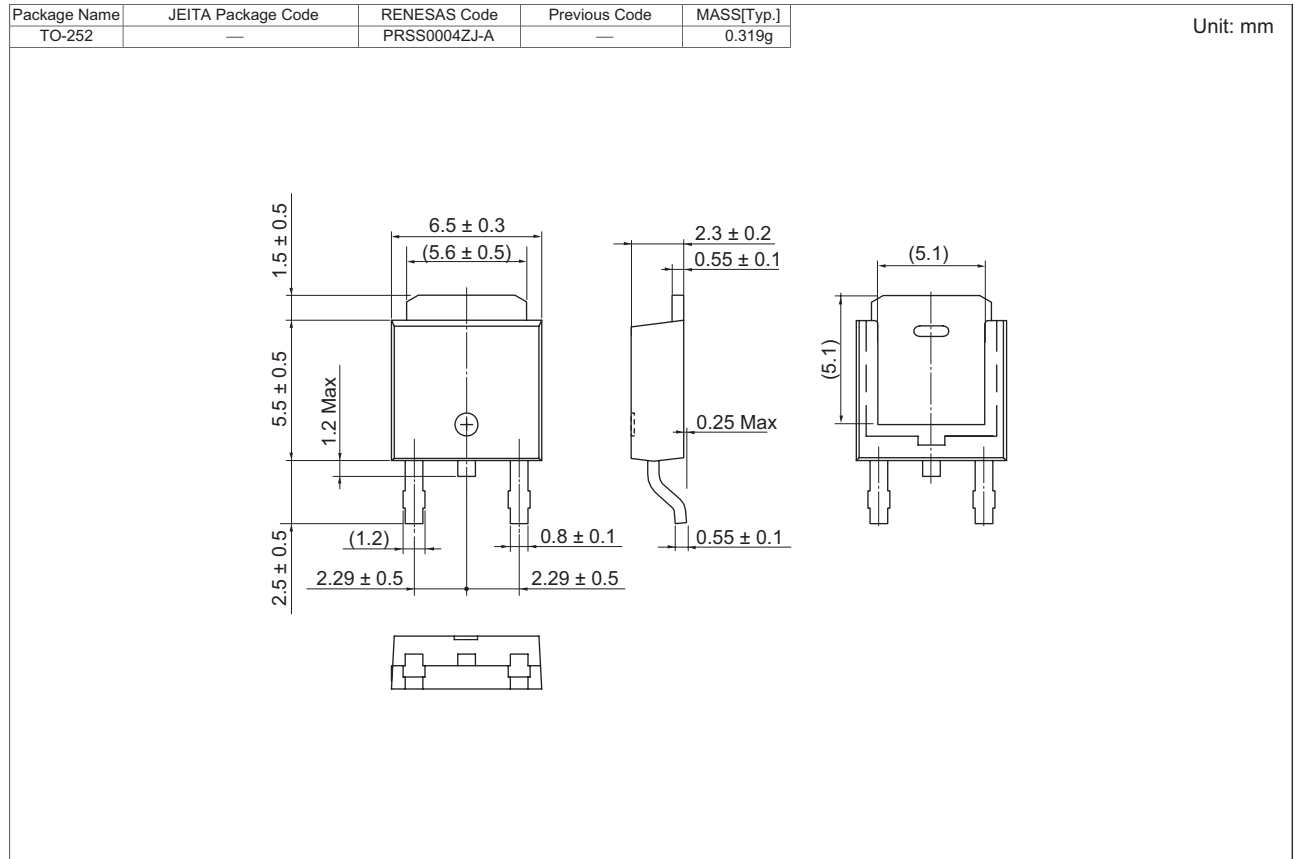
($T_a = 25^\circ\text{C}$)

| Item | Symbol | Min | Typ | Max | Unit | Test conditions |
|-----------------------|----------|-----|-----|-----|---------------|---|
| Forward Voltage | V_F | — | 2.5 | 3.0 | V | $I_F = 10 \text{ A}$ |
| Reverse current | I_R | — | — | 1 | μA | $V_R = 600 \text{ V}$ |
| Reverse Recovery Time | t_{rr} | — | 25 | — | ns | $I_F = 10 \text{ A}$, $di/dt = -100 \text{ A}/\mu\text{s}$ |

Main Characteristics



Package Dimension



Ordering Information

| Orderable Part Number | Quantity | Shipping Container |
|-----------------------|----------|--------------------|
| RJU6052SDPD-E0-J2 | 3000 pcs | Taping |

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