

RJU4352SDPD-E0

430V - 20A - Single Diode
Ultra Fast Recovery Diode

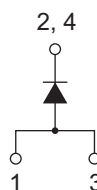
R07DS1271EJ0100
Rev.1.00
Oct 25, 2013

Features

- Ultra fast reverse recovery time: $t_{rr} = 25 \text{ ns typ.}$ (at $I_F = 20 \text{ A}$, $di/dt = 100 \text{ A}/\mu\text{s}$)
- Low forward voltage: $V_F = 1.5 \text{ V typ.}$ (at $I_F = 20 \text{ A}$)
- Low reverse current: $I_R = 1 \mu\text{A max.}$ (at $V_R = 430 \text{ V}$)

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}	430	V
Continuous forward current	$T_c = 25^\circ\text{C}$	I_F	20
	$T_c = 100^\circ\text{C}$	I_F	10
Peak surge forward current	I_{FSM}	80	A
Junction to case thermal resistance	θ_{j-cd}	2.5	$^\circ\text{C}/\text{W}$
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +150	$^\circ\text{C}$

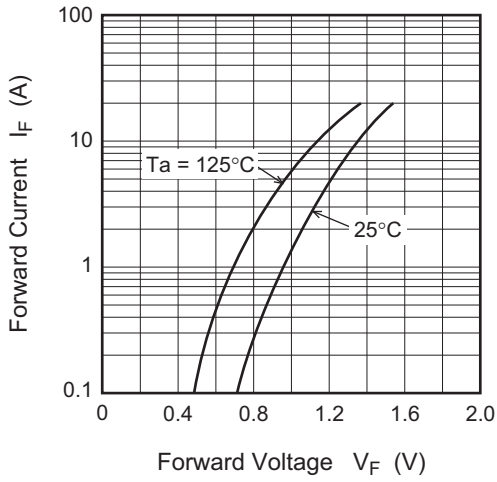
Electrical Characteristics

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

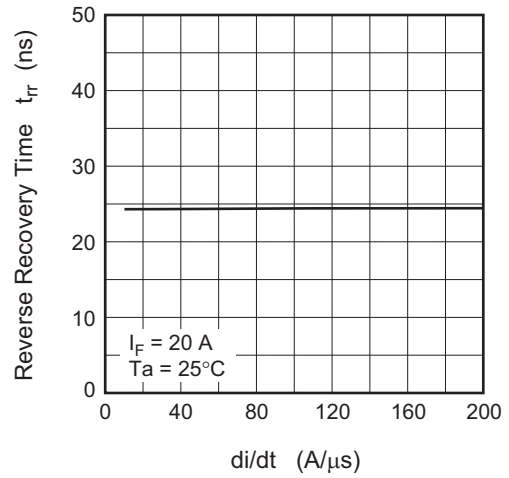
Item	Symbol	Min	Typ	Max	Unit	Test conditions
Forward Voltage	V_F	—	1.5	1.8	V	$I_F = 20 \text{ A}$
Reverse current	I_R	—	—	1	μA	$V_R = 430 \text{ V}$
Reverse Recovery Time	t_{rr}	—	25	—	ns	$I_F = 20 \text{ A}$, $di/dt = 100 \text{ A}/\mu\text{s}$

Main Characteristics

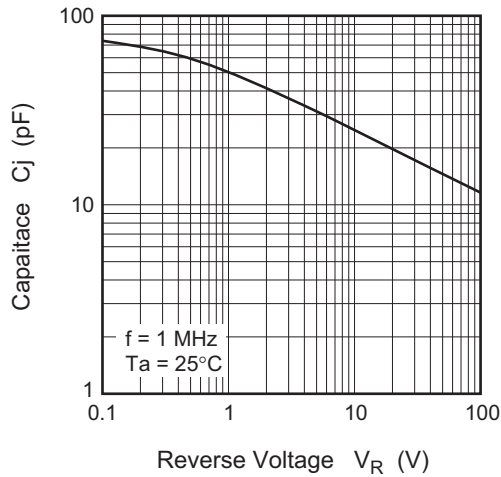
Forward Current vs. Forward Voltage (Typical)



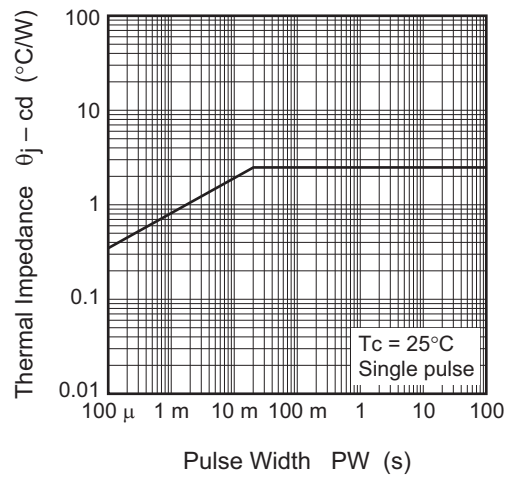
Reverse Recovery Time vs. di/dt (Typical)



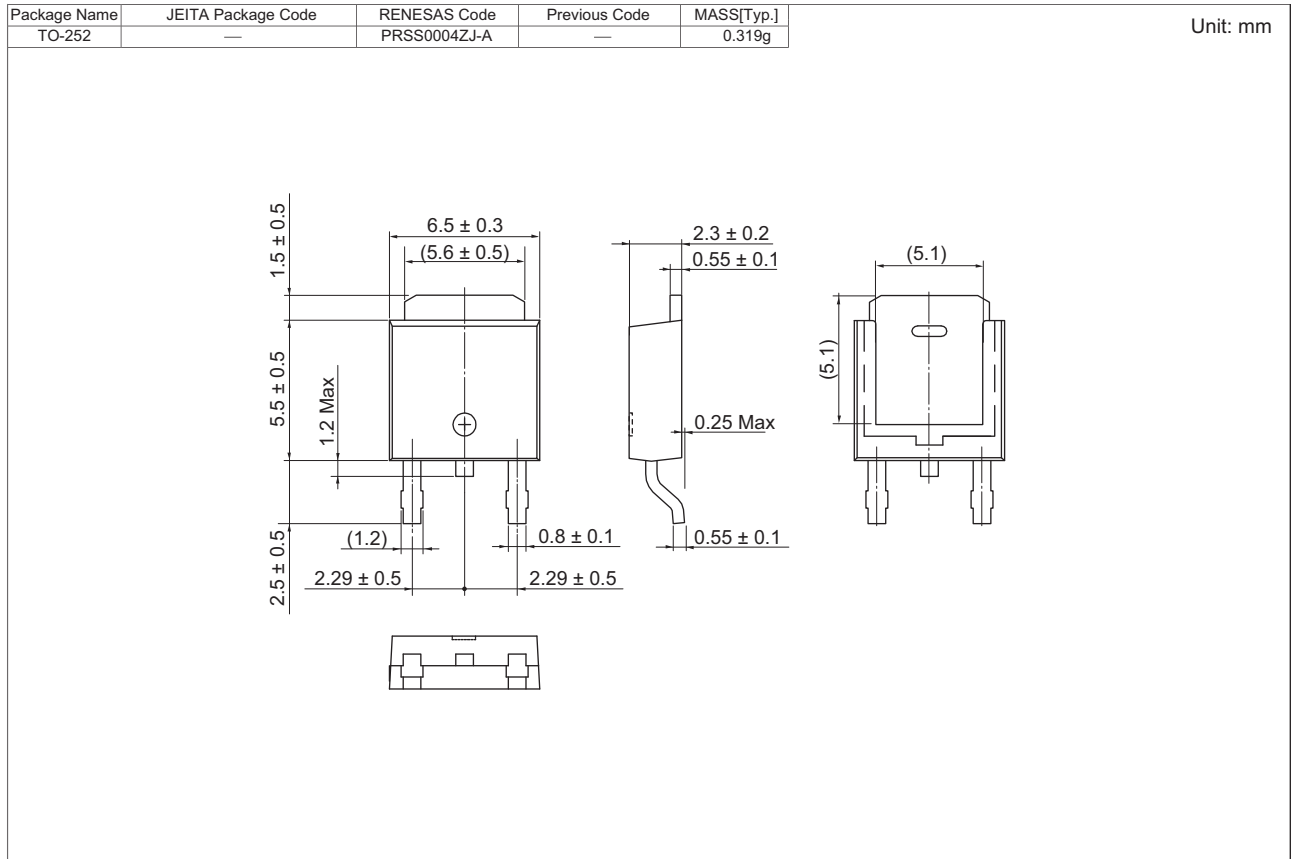
Capacitance vs. Reverse Voltage (Typical)



Thermal Impedance vs. Pulse Width



Package Dimensions



Ordering Information

Orderable Part Number	Quantity	Shipping Container
RJU4352SDPD-E0#J2	9000 pcs	Taping

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