

RJU60C2SDPD

Single Diode
Fast Recovery Diode

R07DS0373EJ0100

Rev.1.00

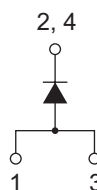
Apr 26, 2011

Features

- Fast reverse recovery time: $t_{rr} = 70$ ns typ. (at $I_F = 5$ A, $di/dt = 100$ A/ μ s)
- Low forward voltage: $V_F = 1.4$ V typ. (at $I_F = 15$ A)
- Low reverse current: $I_R = 1$ μ A max. (at $V_R = 600$ 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
Average rectified forward current	I_o	5	A
Continuous forward current	$T_c = 25^\circ\text{C}$	I_F	15
	$T_c = 100^\circ\text{C}$	I_F	8
Peak surge forward current	I_{FSM}	60	A
Junction to case thermal resistance	θ_{j-cd}	4.0	$^\circ\text{C/W}$
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +150	$^\circ\text{C}$

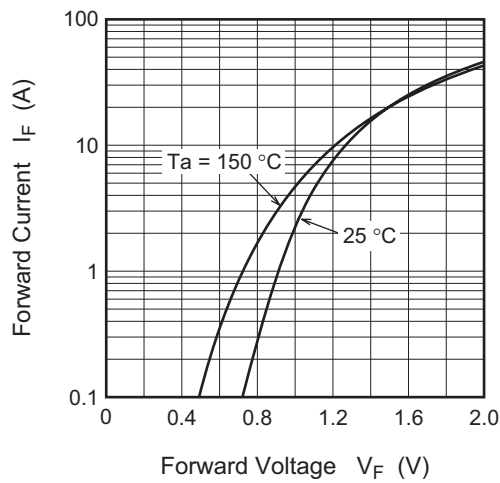
Electrical Characteristics

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

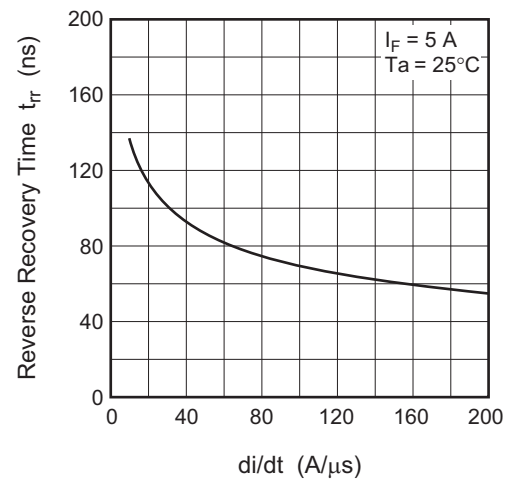
Item	Symbol	Min	Typ	Max	Unit	Test conditions
Forward Voltage	V_F	—	1.4	2.0	V	$I_F = 15$ A
Reverse current	I_R	—	—	1	μ A	$V_R = 600$ V
Reverse Recovery Time	t_{rr}	—	70	—	ns	$I_F = 5$ A, $di/dt = 100$ A/ μ s

Main Characteristics

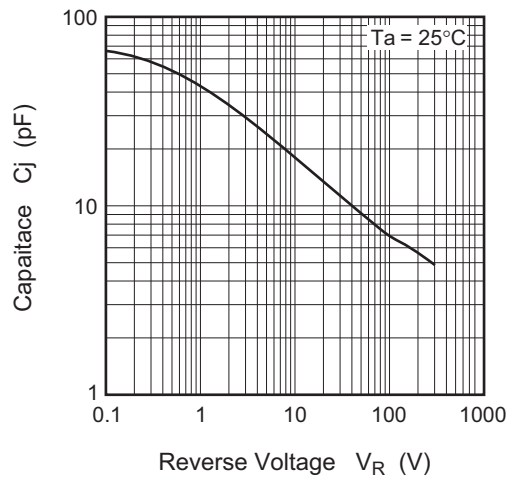
Forward Current vs. Forward Voltage (Typical)



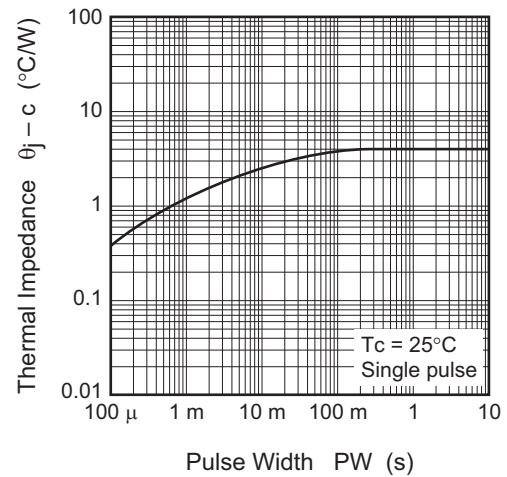
Reverse Recovery Time vs. di/dt (Typical)



Capacitance vs. Reverse Voltage (Typical)



Thermal Impedance vs. Pulse Width



Package Dimensions

Package Name	JEITA Package Code	RENESAS Code	Previous Code	MASS[Typ.]	Unit: mm
TO-252	—	PRSS0004ZJ-A	—	0.319g	

The drawing shows the mechanical dimensions of the RJU60C2SDPD package in millimeters. The top view shows a square body with a width of 6.5 ± 0.3 mm and a height of 5.5 ± 0.5 mm. The distance between the mounting pins is 2.29 ± 0.5 mm. The side view shows a height of 2.3 ± 0.2 mm and a width of 0.55 ± 0.1 mm. The bottom view shows a width of 5.1 mm. The package is marked with a circled plus sign (+) on the top surface.

Ordering Information

Orderable Part Number	Quantity	Shipping Container
RJU60C2SDPD-E0-J2	3000 pcs	Taping

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