

# RJU60C3SDPD

600V - 30A - Single Diode  
Fast Recovery Diode

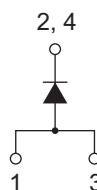
R07DS0375EJ0200  
Rev.2.00  
Nov 07, 2012

## Features

- Fast reverse recovery time:  $t_{rr} = 90$  ns typ. (at  $I_F = 10$  A,  $di/dt = 100$  A/ $\mu$ s)
- Low forward voltage:  $V_F = 1.4$  V typ. (at  $I_F = 30$  A)
- Low reverse current:  $I_R = 1$   $\mu$ 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	$I_o$	10	A	
Continuous forward current	$T_c = 25^\circ\text{C}$	$I_F$	30	A
	$T_c = 100^\circ\text{C}$	$I_F$	15	A
Peak surge forward current	$I_{FSM}$	80	A	
Junction to case thermal resistance	$\theta_{j-cd}$	3.0	$^\circ\text{C}/\text{W}$	
Junction temperature	$T_j$	150	$^\circ\text{C}$	
Storage temperature	$T_{stg}$	-55 to +150	$^\circ\text{C}$	

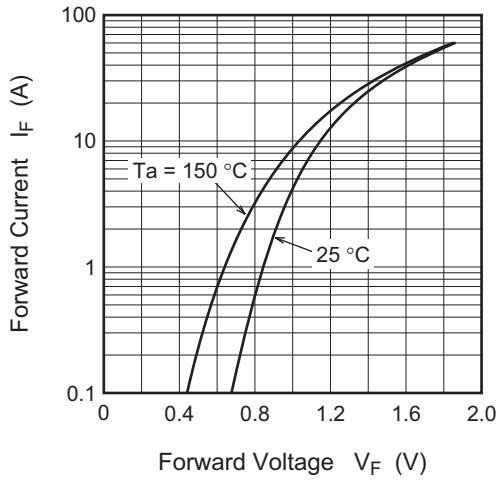
## Electrical Characteristics

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

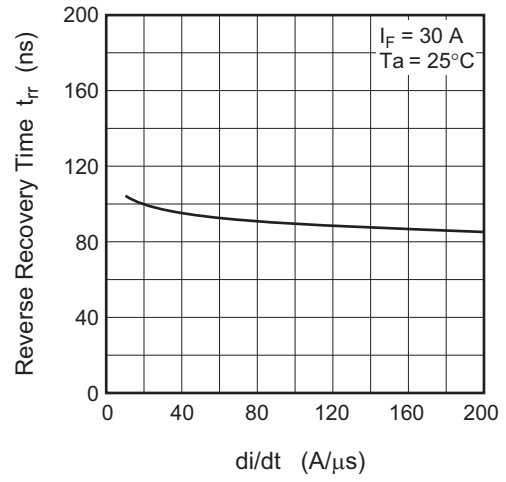
Item	Symbol	Min	Typ	Max	Unit	Test conditions
Forward Voltage	$V_F$	—	1.4	2.1	V	$I_F = 30$ A
Reverse current	$I_R$	—	—	1	$\mu\text{A}$	$V_R = 600$ V
Reverse Recovery Time	$t_{rr}$	—	90	—	ns	$I_F = 10$ A, $di/dt = 100$ A/ $\mu$ s

Main Characteristics

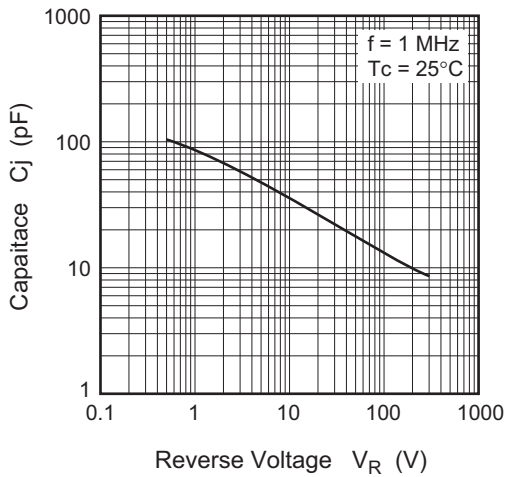
Forward Current vs. Forward Voltage (Typical)



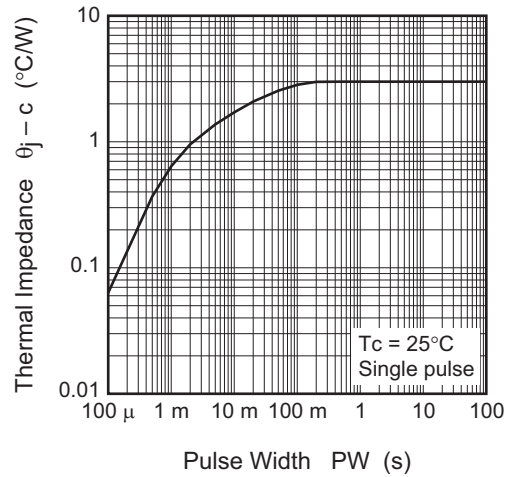
Reverse Recovery Time vs. di/dt (Typical)



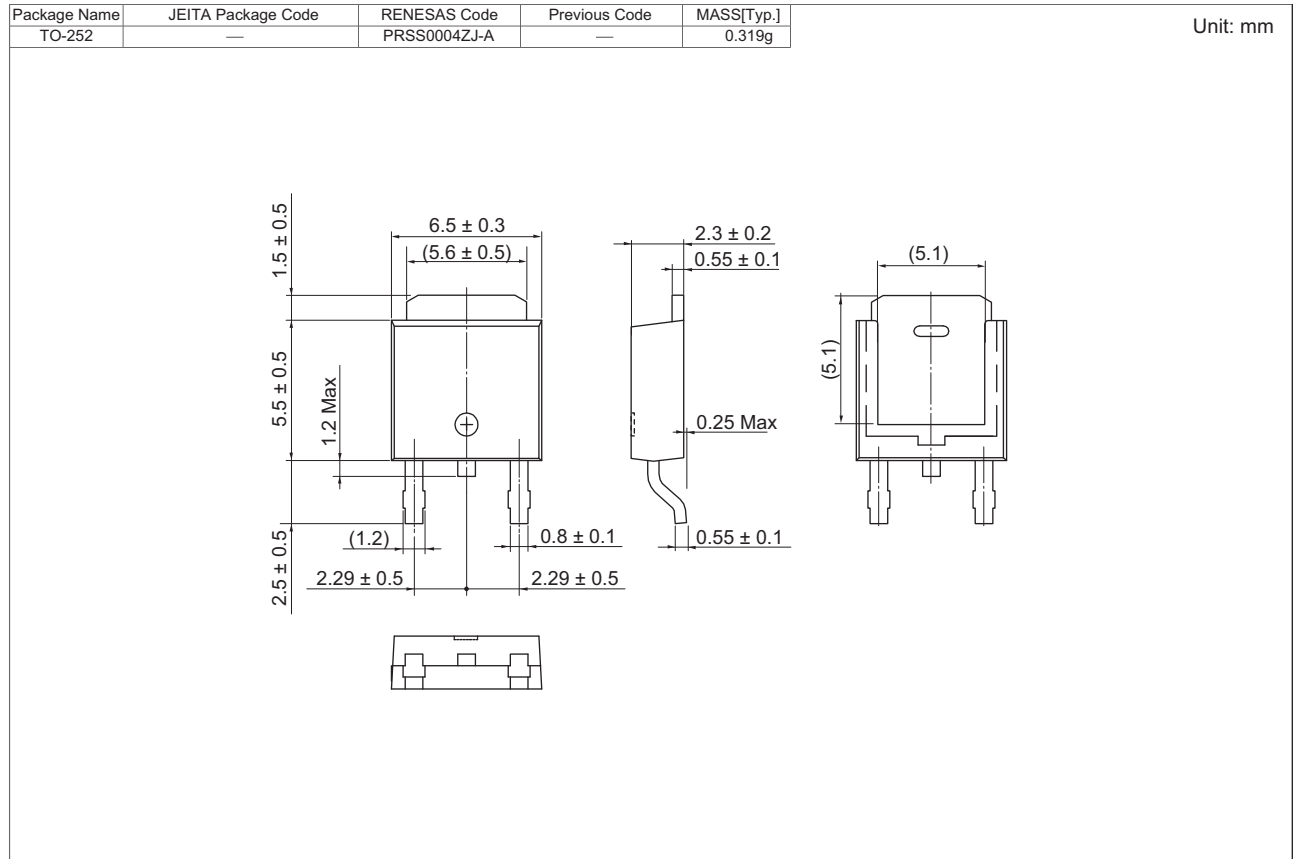
Capacitance vs. Reverse Voltage (Typical)



Thermal Impedance vs. Pulse Width



### Package Dimensions



### Ordering Information

Orderable Part Number	Quantity	Shipping Container
RJU60C3SDPD-E0#J2	3000 pcs	Taping

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