

# RJU60C3WDPP-M0

600V - 60A - Dual Diode  
Fast Recovery Diode

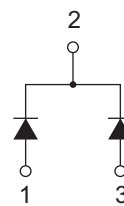
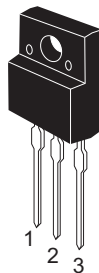
R07DS0886EJ0100  
Rev.1.00  
Oct 22, 2012

## Features

- Fast reverse recovery time:  $t_{rr} = 90$  ns typ. (at  $I_F = 30$  A,  $di/dt = 100$  A/ $\mu$ s) per Leg
- Low forward voltage:  $V_F = 1.4$  V typ. (at  $I_F = 30$  A) per Leg
- Low reverse current:  $I_R = 1$   $\mu$ A max. (at  $V_R = 600$  V) per Leg

## Outline

RENESAS Package code: PRSS0003AF-A  
(Package name: TO-220FL)



1. Anode
2. Cathode
3. Anode

## Absolute Maximum Ratings

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

Item	Symbol	Ratings	Unit	
Maximum reverse voltage	$V_{RM}$	600	V	
Continuous forward current	$T_C = 25^\circ\text{C}$	$I_F^{\text{Note1}}$	30/60	A
	$T_C = 100^\circ\text{C}$	$I_F^{\text{Note1}}$	15/30	A
Peak surge forward current	$I_{FSM}^{\text{Note1}}$	80/160	A	
Junction to case thermal resistance	$\theta_{j-cd}$	4.4	$^\circ\text{C}/\text{W}$	
Junction temperature	$T_j$	150	$^\circ\text{C}$	
Storage temperature	$T_{stg}$	-55 to +150	$^\circ\text{C}$	

Notes: 1. Per leg/device

## Electrical Characteristics

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

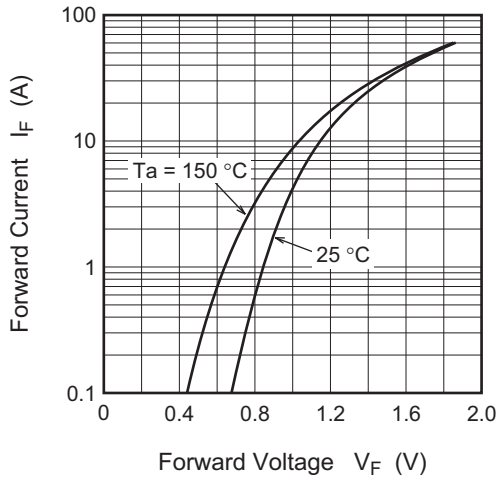
Item	Symbol	Min	Typ	Max	Unit	Test conditions
Forward voltage	$V_F^{\text{Note2}}$	—	1.4	2.1	V	$I_F = 30$ A
Reverse current	$I_R^{\text{Note1}}$	—	—	1/2	$\mu\text{A}$	$V_R = 600$ V
Reverse recovery time	$t_{rr}^{\text{Note2}}$	—	90	—	ns	$I_F = 30$ A, $di/dt = 100$ A/ $\mu$ s

Notes: 1. Per leg/device

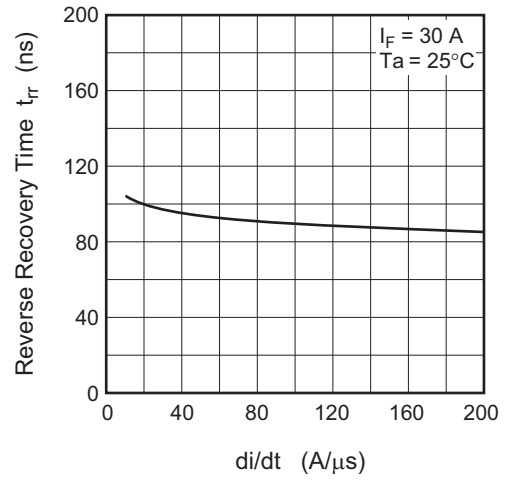
2. Per leg

Main Characteristics

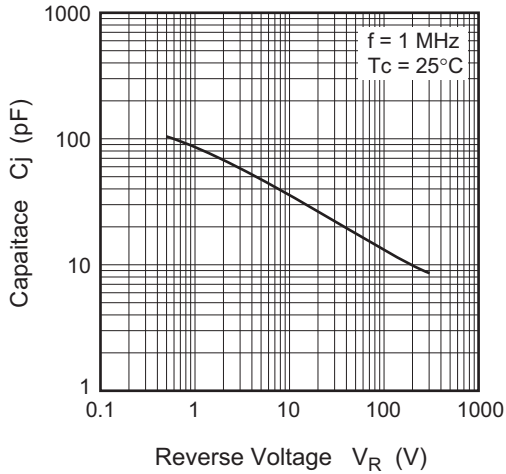
Forward Current vs. Forward Voltage (Typical)



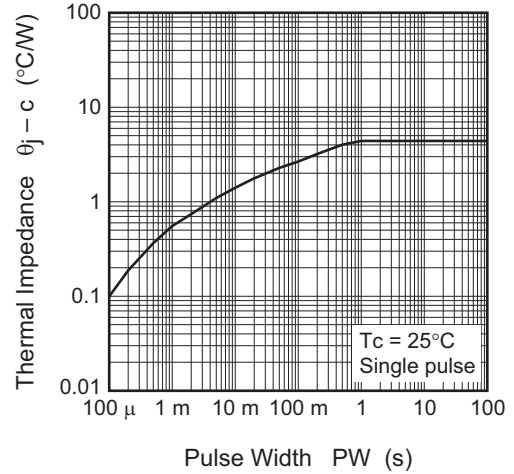
Reverse Recovery Time vs. di/dt (Typical)



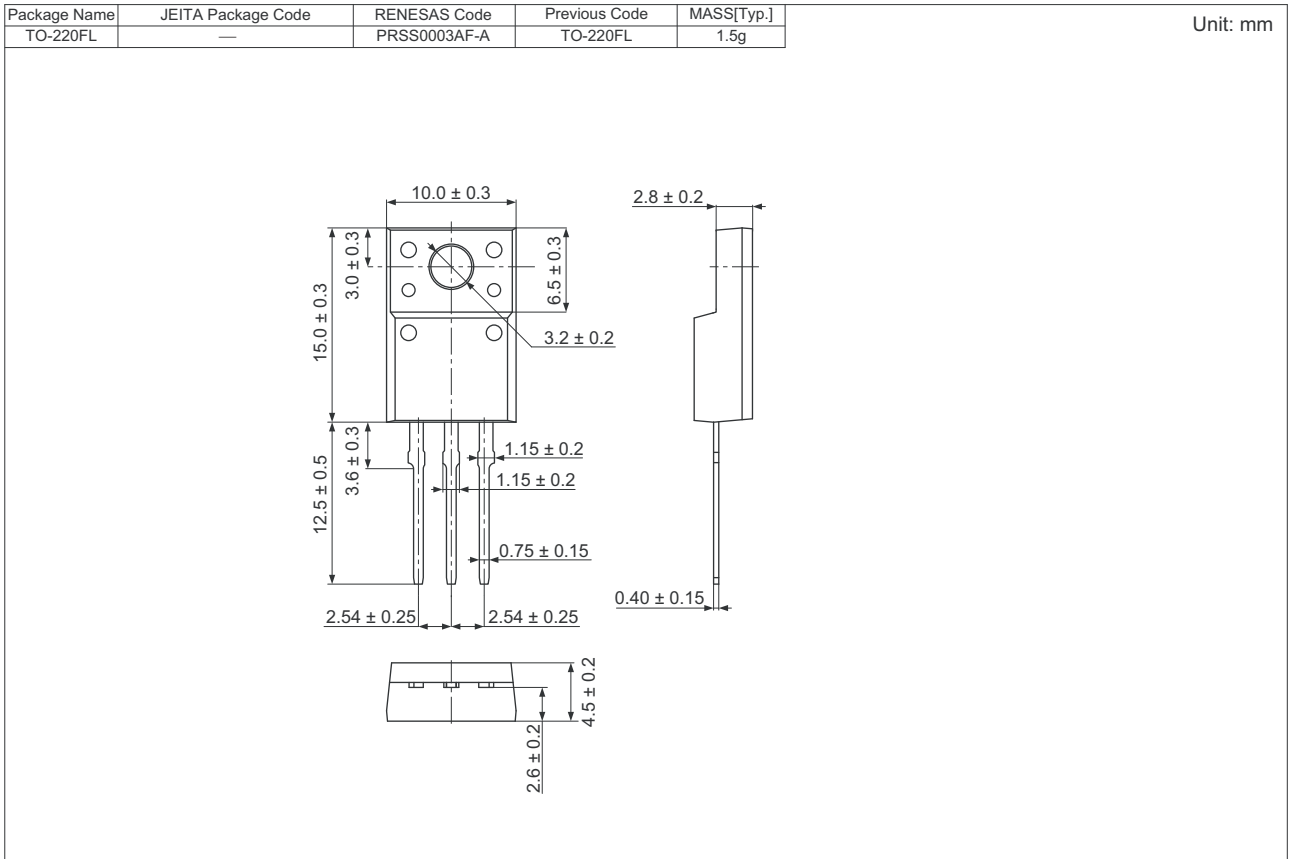
Capacitance vs. Reverse Voltage (Typical)



Thermal Impedance vs. Pulse Width



### Package Dimensions



### Ordering Information

Orderable Part Number	Quantity	Shipping Container
RJU60C3WDPP-M0#T2	600 pcs	Box (Tube)

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