

RJU60C3WDPP-M0

600V - 60A - Dual Diode
Fast Recovery Diode

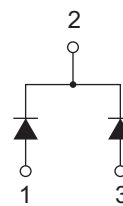
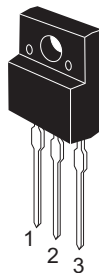
R07DS0886EJ0100
Rev.1.00
Oct 22, 2012

Features

- Fast reverse recovery time: $t_{rr} = 90$ ns typ. (at $I_F = 30$ A, $di/dt = 100$ A/ μ s) per Leg
- Low forward voltage: $V_F = 1.4$ V typ. (at $I_F = 30$ A) per Leg
- Low reverse current: $I_R = 1$ μ 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^{Note1}	30/60	A
	$T_C = 100^\circ\text{C}$	I_F^{Note1}	15/30	A
Peak surge forward current	I_{FSM}^{Note1}	80/160	A	
Junction to case thermal resistance	θ_{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

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

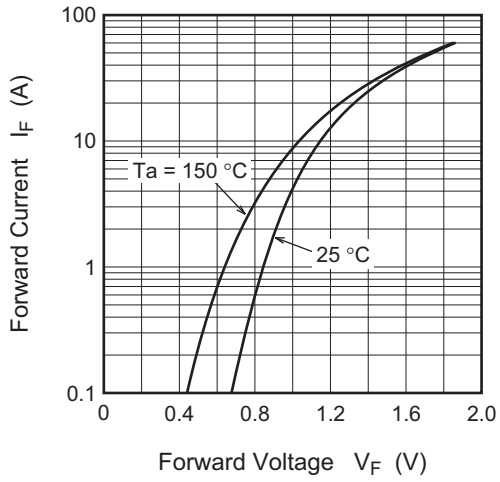
Item	Symbol	Min	Typ	Max	Unit	Test conditions
Forward voltage	V_F^{Note2}	—	1.4	2.1	V	$I_F = 30$ A
Reverse current	I_R^{Note1}	—	—	1/2	μA	$V_R = 600$ V
Reverse recovery time	t_{rr}^{Note2}	—	90	—	ns	$I_F = 30$ A, $di/dt = 100$ A/ μ s

Notes: 1. Per leg/device

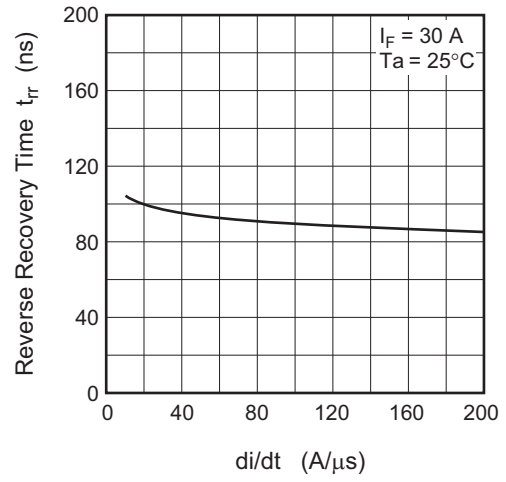
2. Per leg

Main Characteristics

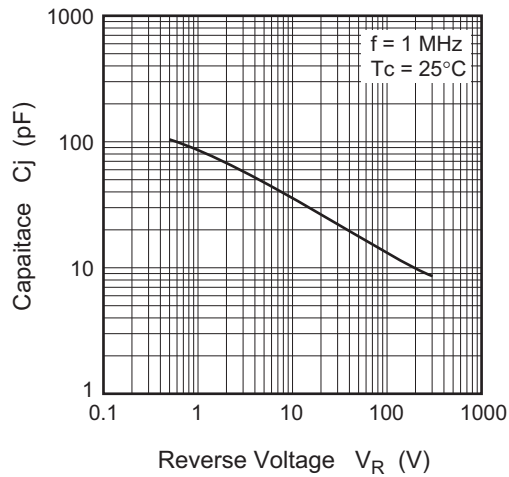
Forward Current vs. Forward Voltage (Typical)



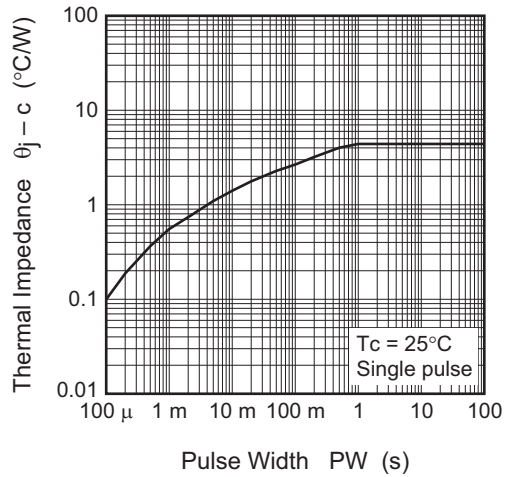
Reverse Recovery Time vs. di/dt (Typical)



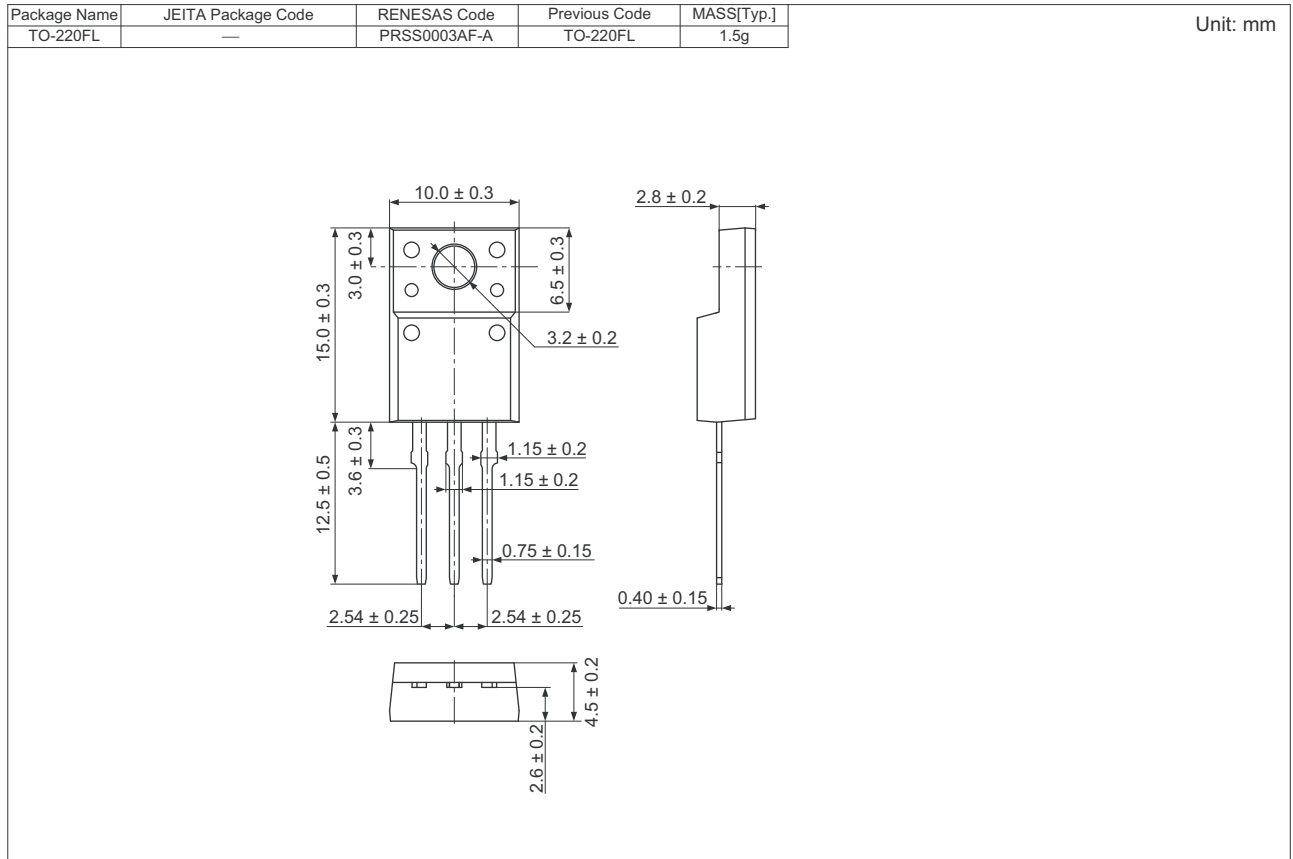
Capacitance vs. Reverse Voltage (Typical)



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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