

RJU60C3TDPP-EJ

600V - 30A - Single Diode
Fast Recovery Diode

R07DS0376EJ0200

Rev.2.00

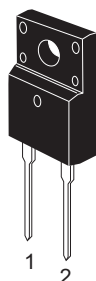
Nov 07, 2012

Features

- Fast reverse recovery time: $t_{rr} = 90$ ns typ. (at $I_F = 10$ A, $di/dt = 100$ A/ μ s)
- Low forward voltage: $V_F = 1.4$ V typ. (at $I_F = 30$ A)
- Low reverse current: $I_R = 1$ μ A max. (at $V_R = 600$ V)

Outline

RENESAS Package code: PRSS0002ZA-A
(Package name: TO-220FP-2L)



1. Cathode
2. Anode

Absolute Maximum Ratings

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

Item		Symbol	Ratings	Unit
Maximum reverse voltage		VRM	600	V
Average rectified forward current		I _o	10	A
Continuous forward current	T _c = 25°C	I _F	30	A
	T _c = 100°C	I _F	15	A
Peak surge forward current		I _{FSM}	80	A
Junction to case thermal resistance		θ _{j-cd}	6.0	°C/W
Junction temperature		T _j	150	°C
Storage temperature		T _{stg}	−55 to +150	°C

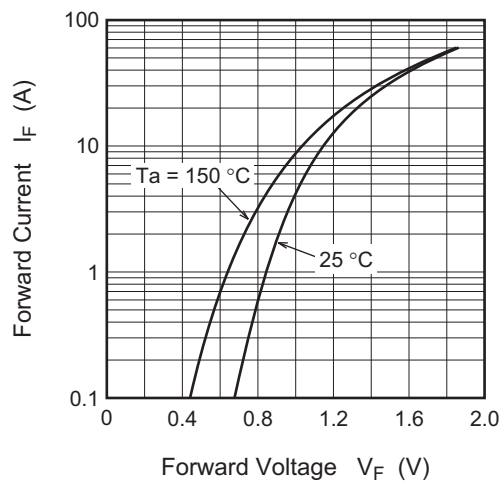
Electrical Characteristics

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

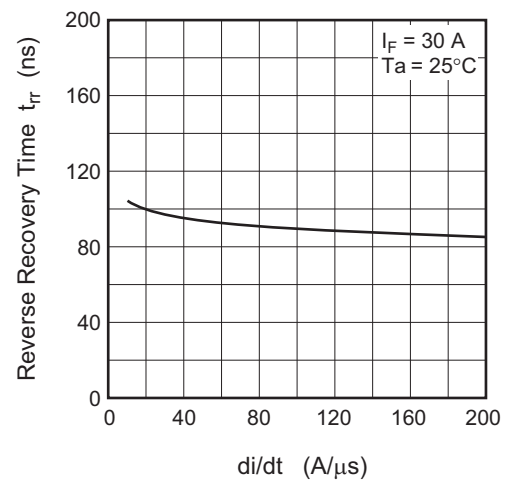
Item	Symbol	Min	Typ	Max	Unit	Test conditions
Forward Voltage	V_F	—	1.4	2.1	V	$I_F = 30$ A
Reverse current	I_R	—	—	1	μA	$V_R = 600$ V
Reverse Recovery Time	t_{rr}	—	90	—	ns	$I_F = 10$ A, $di/dt = 100$ A/ μ s

Main Characteristics

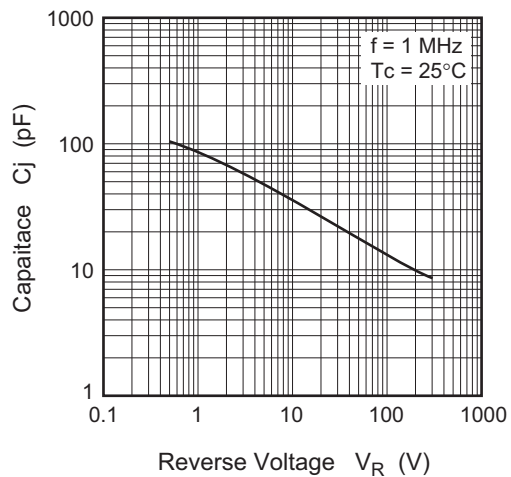
Forward Current vs. Forward Voltage (Typical)



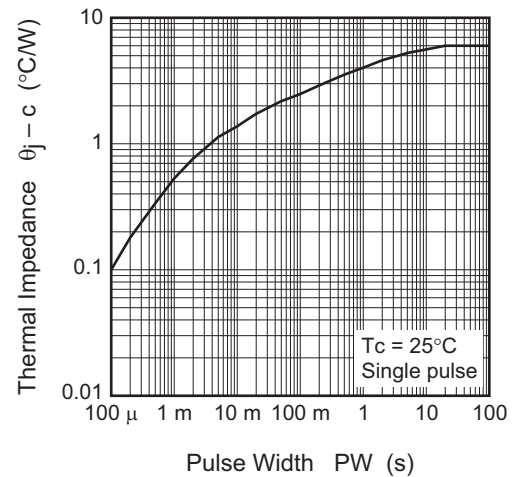
Reverse Recovery Time vs. di/dt (Typical)



Capacitance vs. Reverse Voltage (Typical)



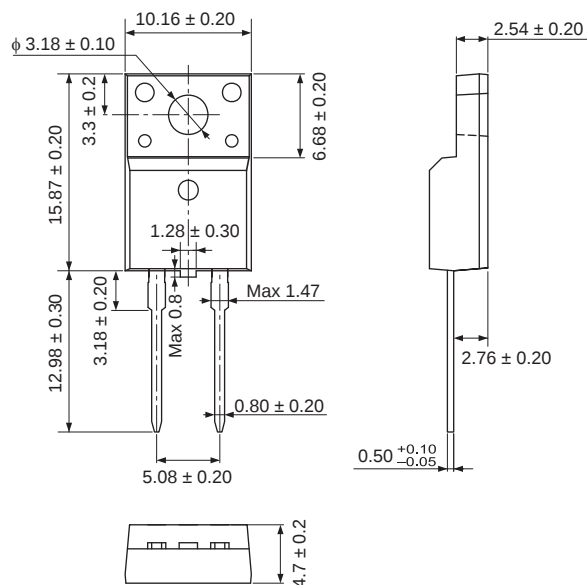
Thermal Impedance vs. Pulse Width



Package Dimensions

Package Name	JEITA Package Code	RENESAS Code	Previous Code	MASS[Typ.]
TO-220FP-2L	—	PRSS0002ZA-A	—	1.7g

Unit: mm



Ordering Information

Orderable Part Number	Quantity	Shipping Container
RJU60C3TDPP-EJ#T2	1000 pcs	Box (Tube)

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