

RJU6052TDPP-EJ

Single Diode
Ultra Fast Recovery Diode

R07DS0381EJ0100

Rev.1.00

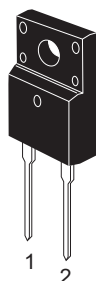
Apr 26, 2011

Features

- Ultra fast reverse recovery time: $t_{rr} = 25$ ns typ. (at $I_F = 10$ A, $di/dt = -100$ A/ μ s)
- Low forward voltage: $V_F = 2.5$ V typ. (at $I_F = 10$ 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		V_{RM}	600	V
Continuous forward current	$T_C = 25^\circ\text{C}$	I_F	10	A
	$T_C = 100^\circ\text{C}$	I_F	5	A
Peak surge forward current		I_{FSM}	30	A
Junction to case thermal resistance		θ_{j-cd}	2.6	$^\circ\text{C}/\text{W}$
Junction temperature		T_j	150	$^\circ\text{C}$
Storage temperature		T_{stg}	-55 to +150	$^\circ\text{C}$

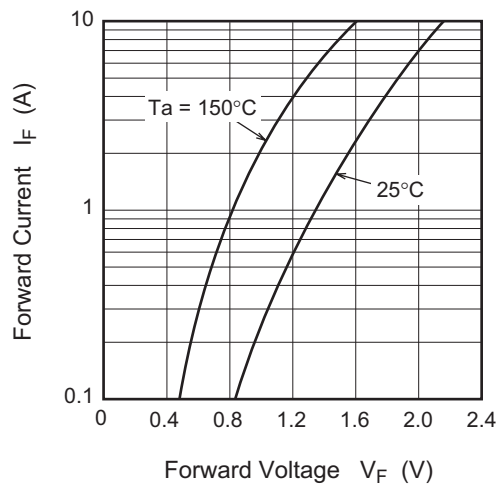
Electrical Characteristics

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

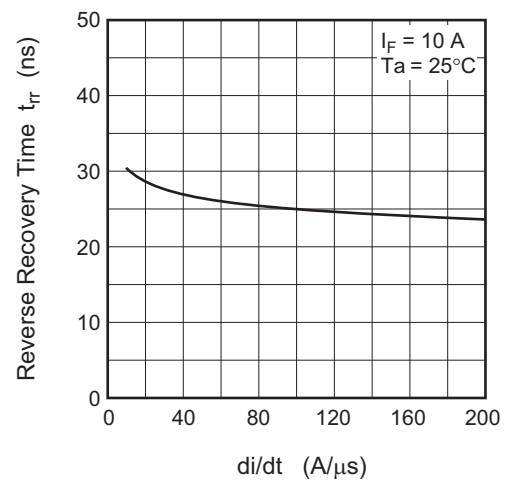
Item	Symbol	Min	Typ	Max	Unit	Test conditions
Forward Voltage	V_F	—	2.5	3.0	V	$I_F = 10$ A
Reverse current	I_R	—	—	1	μA	$V_R = 600$ V
Reverse Recovery Time	t_{rr}	—	25	—	ns	$I_F = 10$ A, $di/dt = -100$ A/ μ s

Main Characteristics

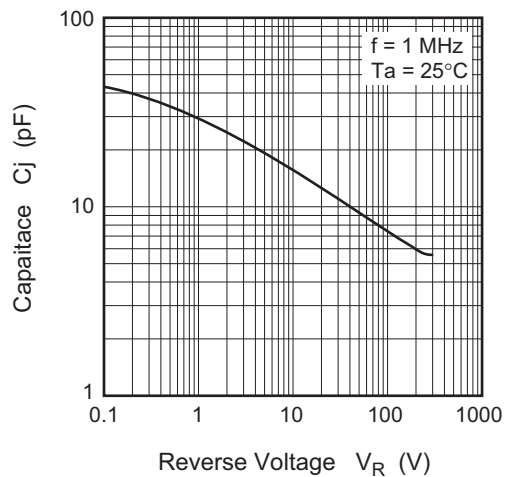
Forward Current vs. Forward Voltage (Typical)



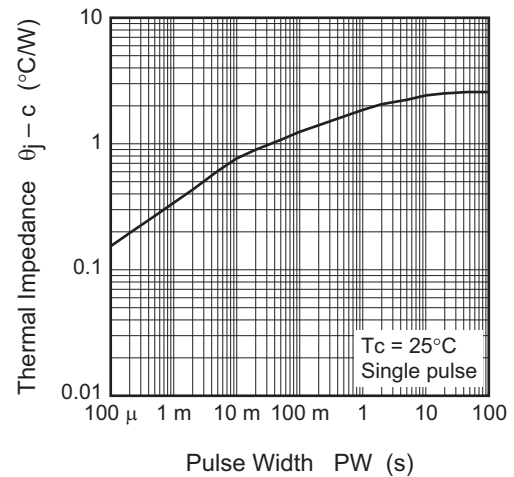
Reverse Recovery Time vs. di/dt



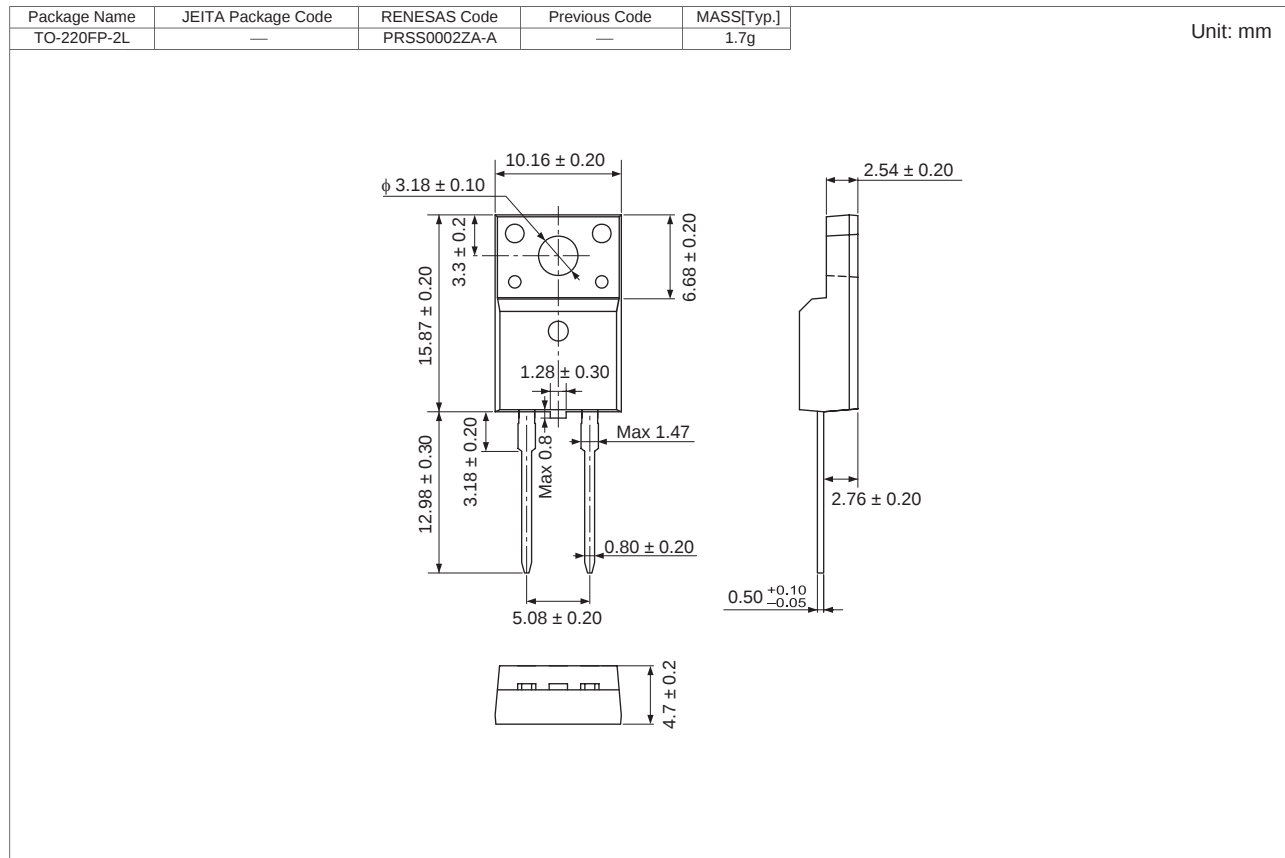
Capacitance vs. Reverse Voltage (Typical)



Thermal Impedance vs. Pulse Width



Package Dimension



Ordering Information

Orderable Part Number	Quantity	Shipping Container
RJU6052TDPP-EJ-T2	600 pcs	Box (Tube)

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