

RJU4351TDPP-EJ

Single Diode
Ultra Fast Recovery Diode

R07DS0634EJ0100

Rev.1.00

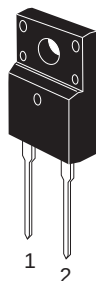
Jan 05, 2012

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: $V_F = 1.6$ V typ. (at $I_F = 10$ A)
- Low reverse current: $I_R = 1$ μ A max. (at $V_R = 430$ V)
- Isolated package: TO-220FP (2pin)

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}	430	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}	50	A
Junction to case thermal resistance		θ_{j-cd}	8.33	$^\circ\text{C/W}$
Junction temperature		T_j	150	$^\circ\text{C}$
Storage temperature		T_{stg}	-55 to +150	$^\circ\text{C}$

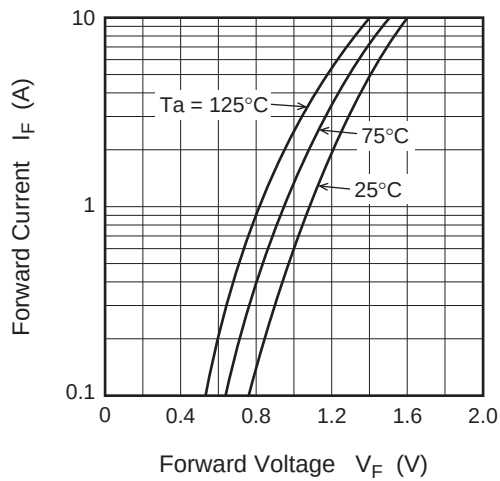
Electrical Characteristics

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

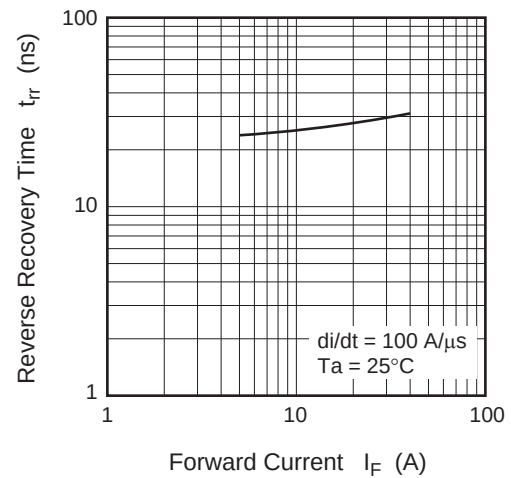
Item	Symbol	Min	Typ	Max	Unit	Test conditions
Forward voltage	V_F	—	1.6	1.9	V	$I_F = 10$ A
Reverse current	I_R	—	—	1	μ A	$V_R = 430$ V
Reverse recovery time	t_{rr}	—	25	—	ns	$I_F = 10$ A, $di/dt = 100$ A/ μ s

Main Characteristics

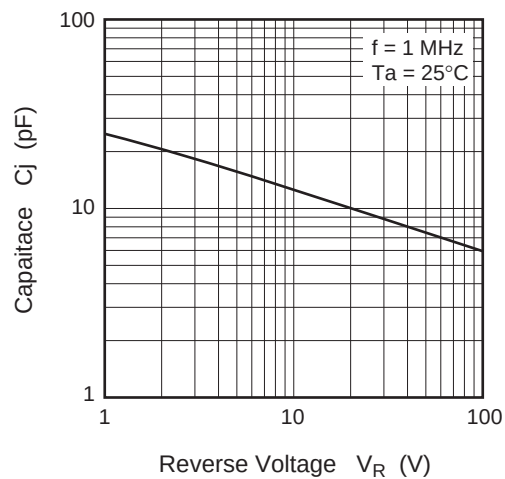
Forward Current vs. Forward Voltage (Typical)



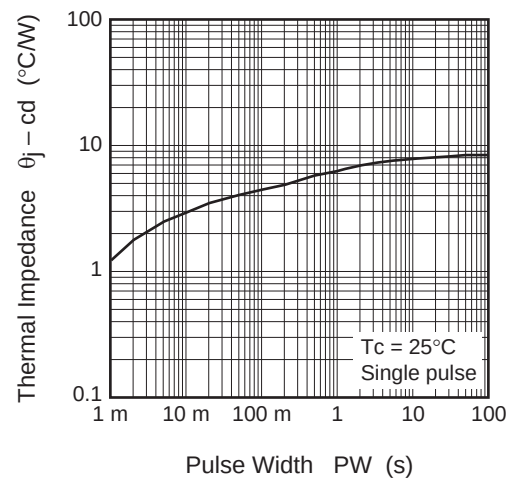
Reverse Recovery Time vs. Forward Current (Typical)



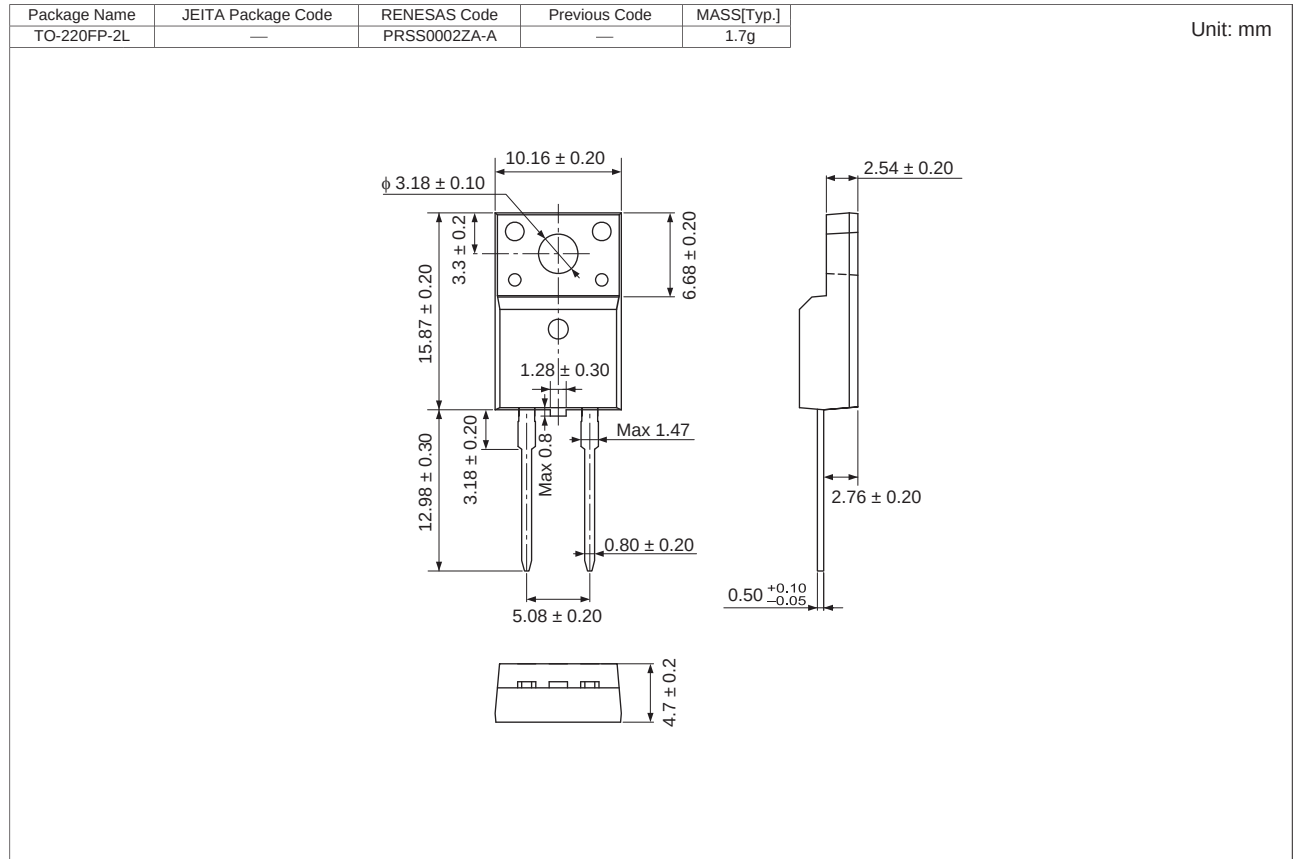
Capacitance vs. Reverse Voltage (Typical)



Thermal Impedance vs. Pulse Width



Package Dimensions



Ordering Information

Orderable Part No.	Quantity	Shipping Container
RJU4351TDPP-EJ#T2	600 pcs	Box (Tube)

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