

RJU4351TDPP-EJ

Single Diode
Ultra Fast Recovery Diode

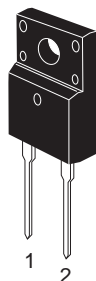
R07DS0634EJ0100
Rev.1.00
Jan 05, 2012

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	$^\circ\text{C}/\text{W}$
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +150	$^\circ\text{C}$

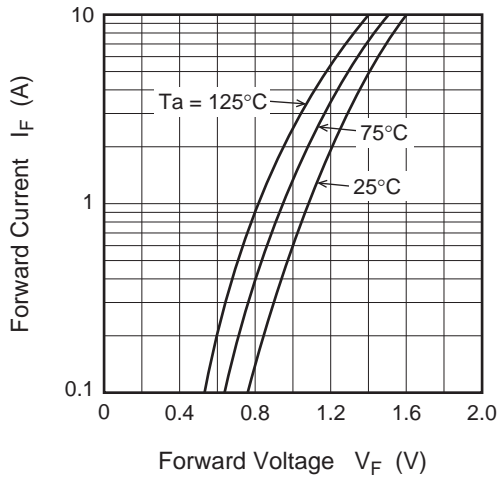
Electrical Characteristics

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

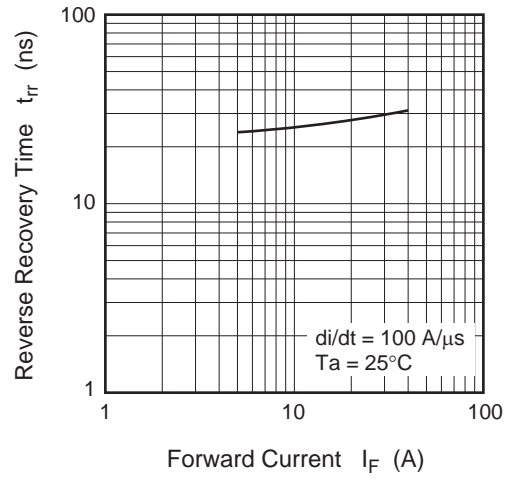
Item	Symbol	Min	Typ	Max	Unit	Test conditions
Forward voltage	V_F	—	1.6	1.9	V	$I_F = 10$ A
Reverse current	I_R	—	—	1	μ A	$V_R = 430$ V
Reverse recovery time	t_{rr}	—	25	—	ns	$I_F = 10$ A, $di/dt = 100$ A/ μ s

Main Characteristics

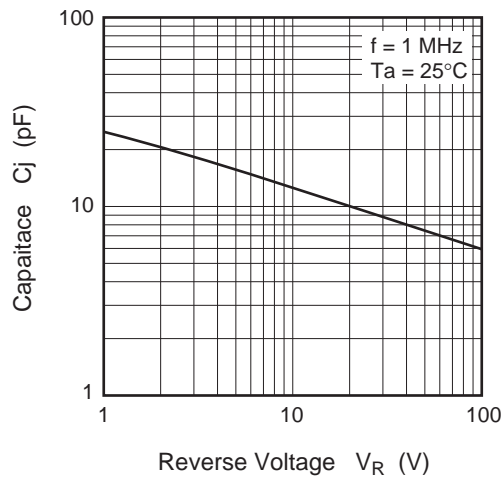
Forward Current vs. Forward Voltage (Typical)



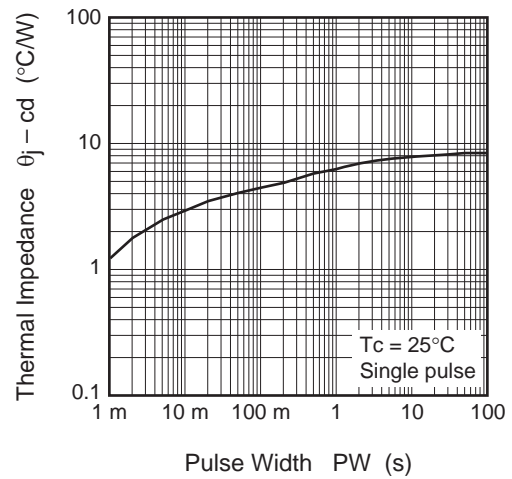
Reverse Recovery Time vs. Forward Current (Typical)



Capacitance vs. Reverse Voltage (Typical)



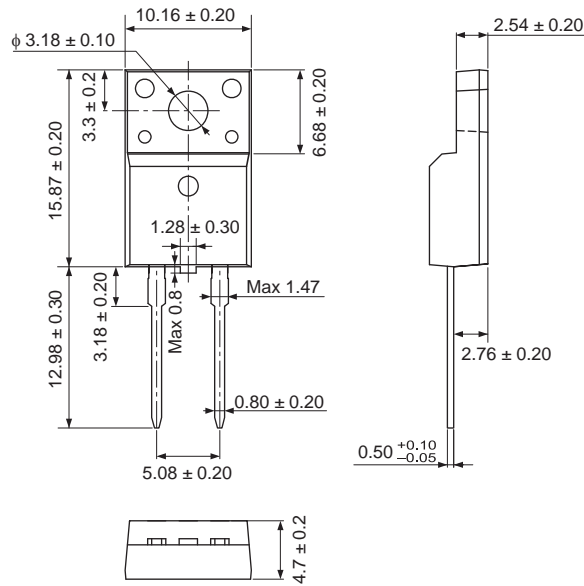
Thermal Impedance vs. Pulse Width



Package Dimensions

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

Unit: mm



Ordering Information

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

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