

RJU60C6TDPP-EJ

Single Diode
Fast Recovery Diode

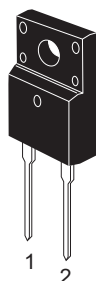
R07DS0387EJ0100
Rev.1.00
Apr 26, 2011

Features

- Fast reverse recovery time: $t_{rr} = 100$ ns typ. (at $I_F = 30$ A, $di/dt = -100$ A/ μ s)
- Low forward voltage: $V_F = 1.4$ V typ. (at $I_F = 50$ 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

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

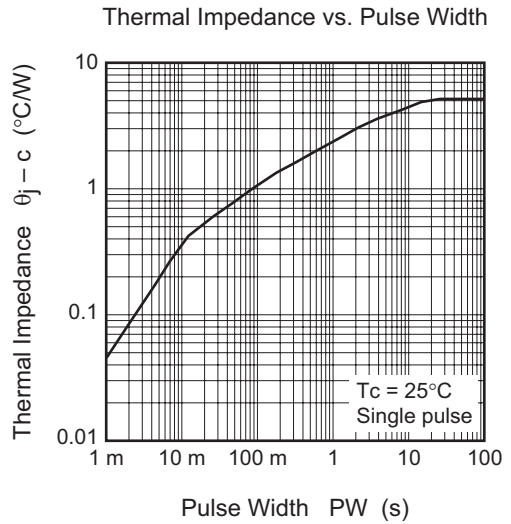
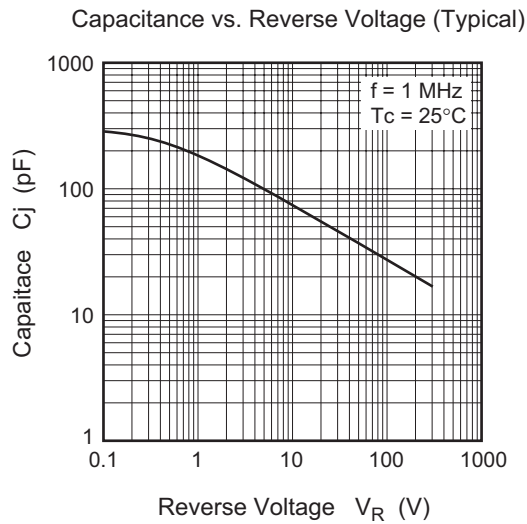
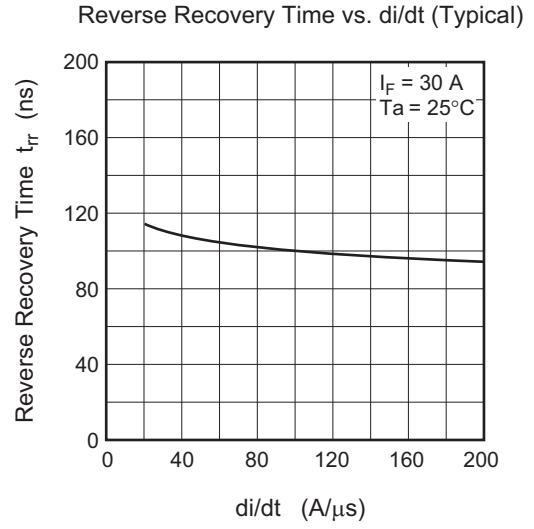
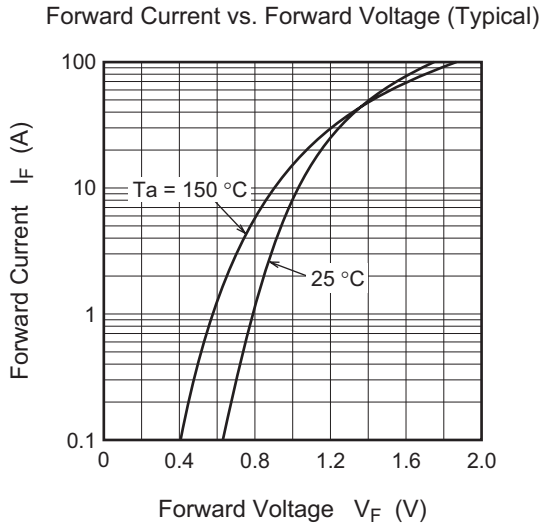
Item	Symbol	Ratings	Unit	
Maximum reverse voltage	V_{RM}	600	V	
Average rectified forward current	I_o	30	A	
Continuous forward current	$T_C = 25^\circ\text{C}$	I_F	50	A
	$T_C = 100^\circ\text{C}$	I_F	25	A
Peak surge forward current	I_{FSM}	140	A	
Junction to case thermal resistance	θ_{j-cd}	5.2	$^\circ\text{C}/\text{W}$	
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	—	1.4	2.0	V	$I_F = 50$ A
Reverse current	I_R	—	—	1	μ A	$V_R = 600$ V
Reverse Recovery Time	t_{rr}	—	100	—	ns	$I_F = 30$ A, $di/dt = -100$ A/ μ s

Main Characteristics



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