RJU36B2WDPK-M0

Dual Diode
Ultra Fast Recovery Diode

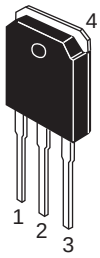
R07DS0668EJ0100
Rev.1.00
Mar 01, 2012

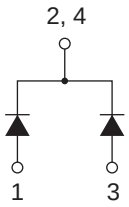
Features

- Ultra fast reverse recovery time: t_{rr} = 40 ns typ. (at I_F = 20 A, di/dt = 100 A/μs)
- Low forward voltage: V_F = 1.1 V typ. (at I_F = 20 A)
- Low reverse current: I_R = 1 μA max. (at V_R = 360 V)

Outline

RENESAS Package code: PRSS0004ZH-A
(Package name: TO-3PSG)





1. Anode
2. Cathode
3. Anode
4. Cathode

Absolute Maximum Ratings

(Ta = 25°C)

Item		Symbol	Ratings	Unit
Maximum reverse voltage		V_{RM}	360	V
Continuous forward current	Tc = 25°C	I_F Note	20/40	A
	Tc = 100°C	I_F Note	10/20	A
Peak surge forward current		I_{FSM} Note	80/160	A
Junction to case thermal resistance		θj-cd	2.4	°C/W
Junction temperature		Tj	150	°C
Storage temperature		Tstg	–55 to +150	°C

Note: Per leg/device

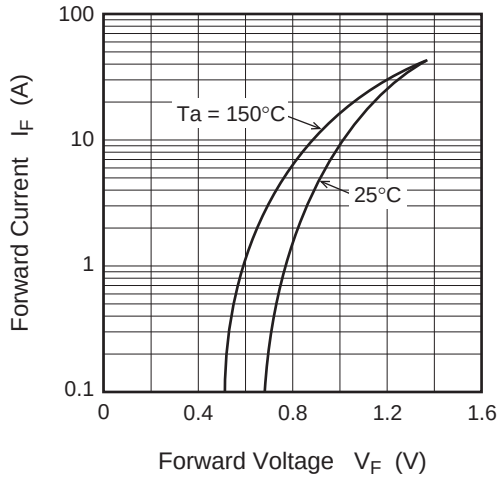
Electrical Characteristics

(Ta = 25°C)

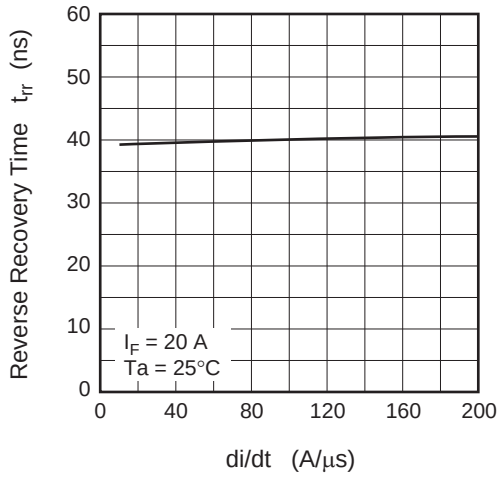
Item	Symbol	Min	Typ	Max	Unit	Test conditions
Forward Voltage	V_F	—	1.1	1.5	V	I_F = 20 A
Reverse current	I_R	—	—	1	μA	V_R = 360 V
Reverse Recovery Time	t_{rr}	—	40	—	ns	I_F = 20 A, di/dt = 100 A/μs

Main Characteristics

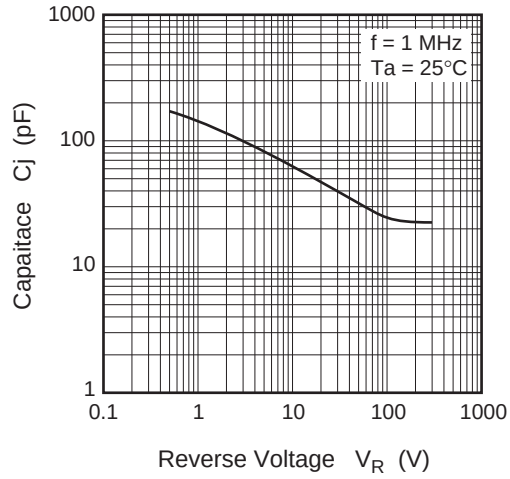
Forward Current vs. Forward Voltage (Typical)



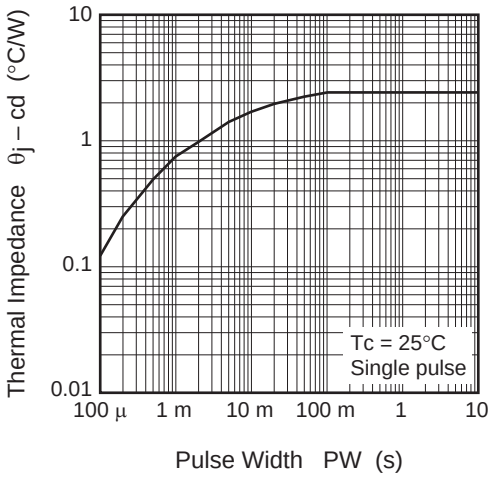
Reverse Recovery Time vs.di/dt (Typical)



Capacitance vs. Reverse Voltage (Typical)



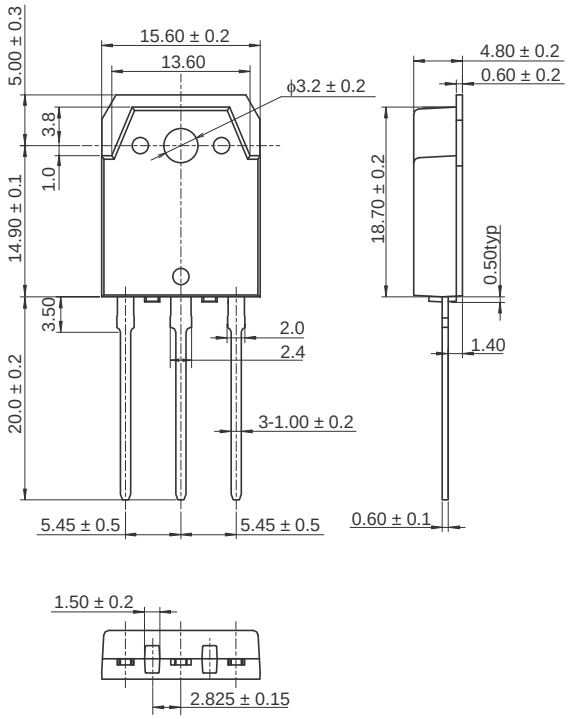
Thermal Impedance vs. Pulse Width



Package Dimensions

Package Name	JEITA Package Code	RENESAS Code	Previous Code	MASS[Typ.]
TO-3PSG	—	PRSS0004ZH-A	TO-3PSG/TO-3PSGV	3.7g

Unit: mm



Ordering Information

Orderable Part No.	Quantity	Shipping Container
RJU36B2WDPK-M0#T0	360 pcs	Box (Tube)

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