RJU60C6WDPK-M0

600V - 50A - Dual Diode
Super Fast Recovery Diode

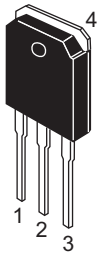
R07DS0875EJ0100
Rev.1.00
Sep 03, 2012

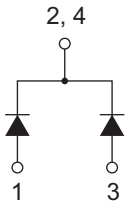
Features

- Fast reverse recovery time: t_{rr} = 100 ns typ. (at I_F = 30 A, di/dt = 100 A/μs) Per Leg
- Low forward voltage: V_F = 1.4 V typ. (at I_F = 50 A) Per Leg
- Low reverse current: I_R = 1 μA max. (at V_R = 600 V) Per Leg

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}	600	V
Continuous forward current (Per Leg/Device)	Tc = 25°C	I_F Note1	50/100	A
	Tc = 100°C	I_F Note1	25/50	A
Peak surge forward current (Per Leg/Device)		I_{FSM} Note1	140/280	A
Junction to case thermal resistance		θj-cd	1.28	°C/W
Junction temperature		Tj	150	°C
Storage temperature		Tstg	–55 to +150	°C

Notes: 1. Per leg/device

Electrical Characteristics

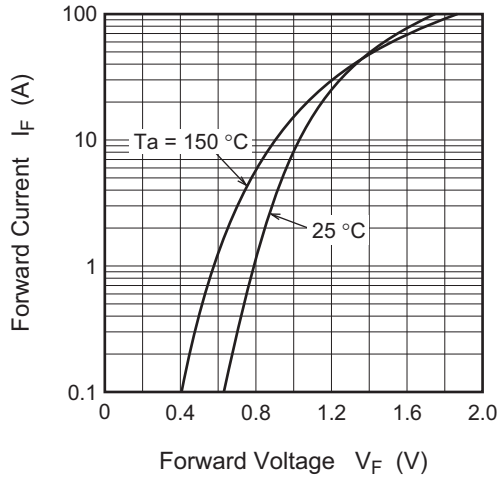
(Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test conditions
Forward voltage	V_F Note2	—	1.4	2.0	V	I_F = 50 A
Reverse current	I_R Note1	—	—	1/2	μA	V_R = 600 V
Reverse recovery time	t_{rr} Note2	—	100	—	ns	I_F = 30 A, di/dt = 100 A/μs

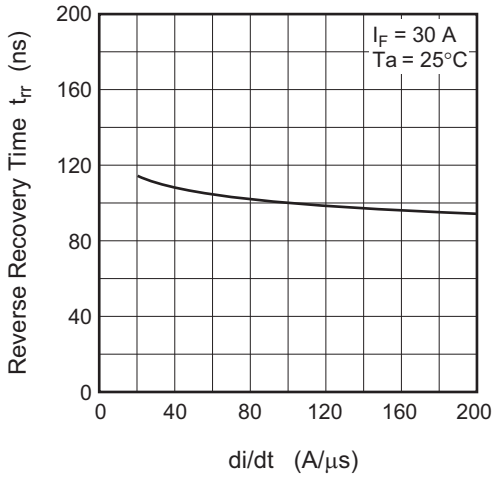
Notes: 1. Per leg/device
2. Per leg

Main Characteristics

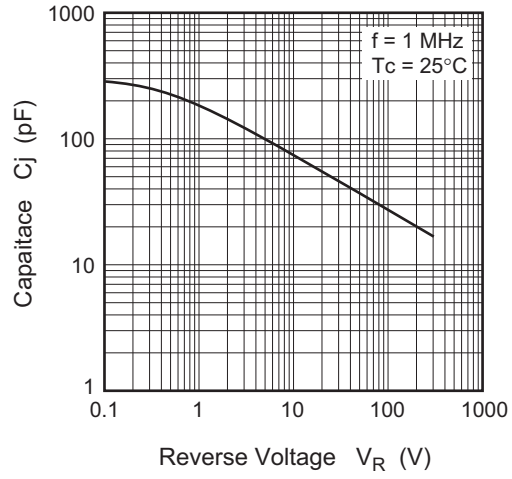
Forward Current vs. Forward Voltage (Typical)



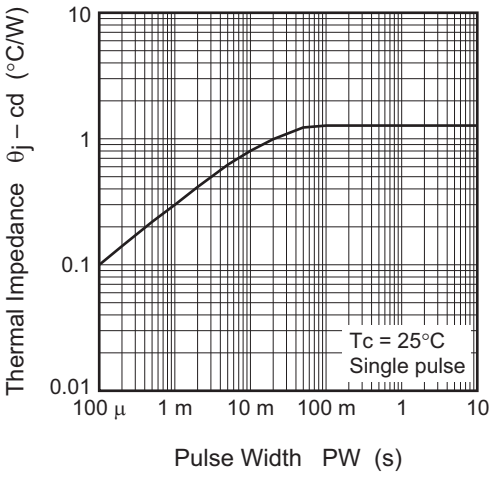
Reverse Recovery Time vs. di/dt (Typical)



Capacitance vs. Reverse Voltage (Typical)



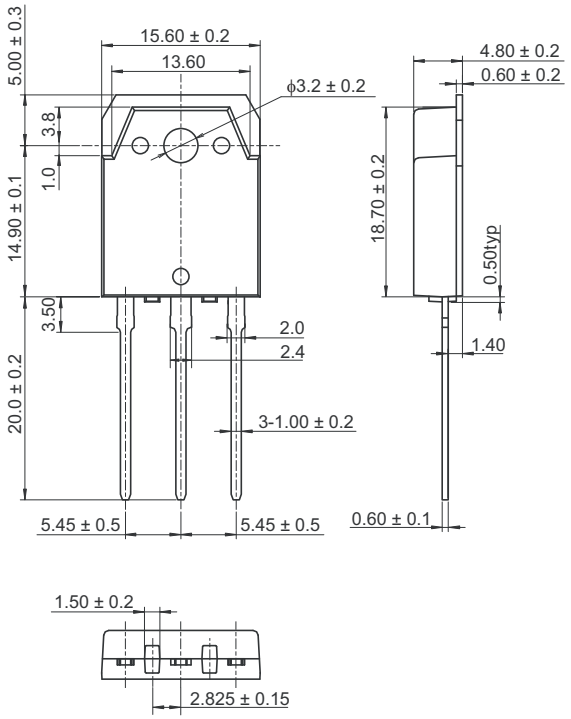
Thermal Impedance vs. Pulse Width



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
RJU60C6WDPK-M0#T0	360 pcs	Box (Tube)

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