

RJU36B1WDPK-M0

Dual Diode
Ultra Fast Recovery Diode

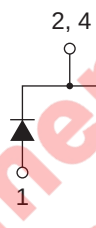
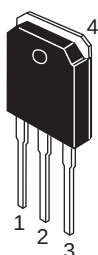
R07DS0667EJ0100
Rev.1.00
Mar 01, 2012

Features

- Ultra fast reverse recovery time: $t_{rr} = 40$ ns typ. (at $I_F = 10$ A, $di/dt = 100$ A/ μ s)
- Low forward voltage: $V_F = 1.1$ V typ. (at $I_F = 10$ A)
- Low reverse current: $I_R = 1$ μ A 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

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

Item	Symbol	Ratings	Unit
Maximum reverse voltage	V_{RM}	360	V
Continuous forward current	I_F ^{Note} $T_c = 25^\circ\text{C}$	10/20	A
	I_F ^{Note} $T_c = 100^\circ\text{C}$	5/10	A
Peak surge forward current	I_{FSM} ^{Note}	40/80	A
Junction to case thermal resistance	θ_j -cd	3.25	$^\circ\text{C}/\text{W}$
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +150	$^\circ\text{C}$

Note: Per leg/device

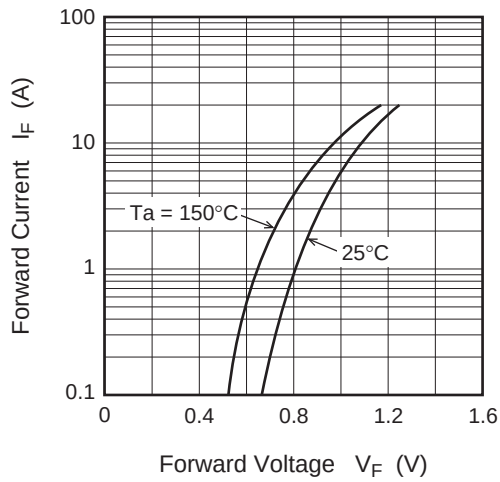
Electrical Characteristics

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

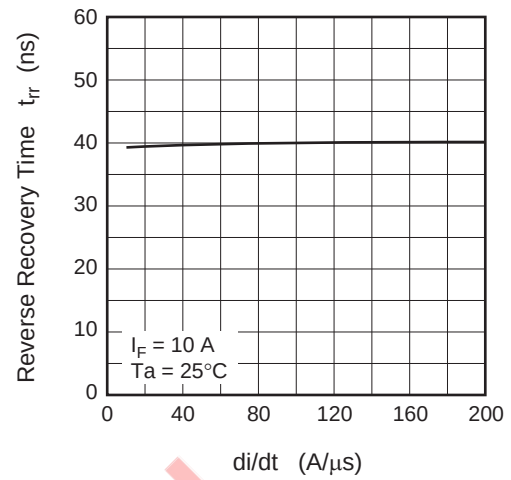
Item	Symbol	Min	Typ	Max	Unit	Test conditions
Forward voltage	V_F	—	1.1	1.5	V	$I_F = 10$ A
Reverse current	I_R	—	—	1	μA	$V_R = 360$ V
Reverse recovery time	t_{rr}	—	40	—	ns	$I_F = 10$ A, $di/dt = 100$ A/ μ s

Main Characteristics

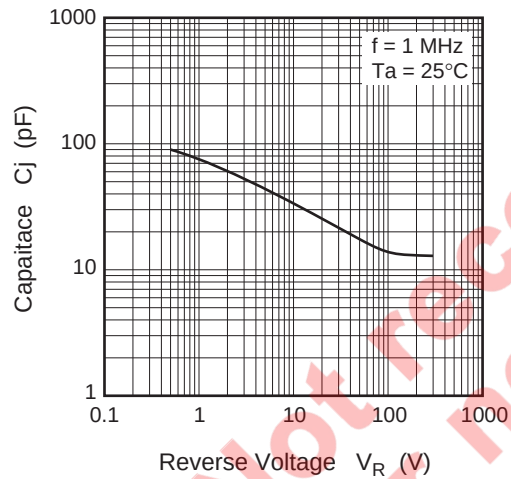
Forward Current vs. Forward Voltage (Typical)



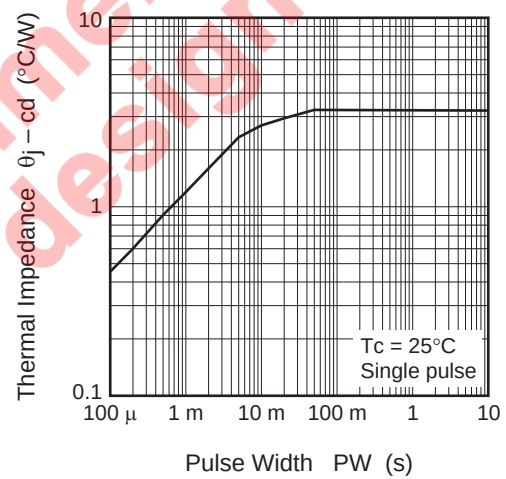
Reverse Recovery Time vs. di/dt (Typical)



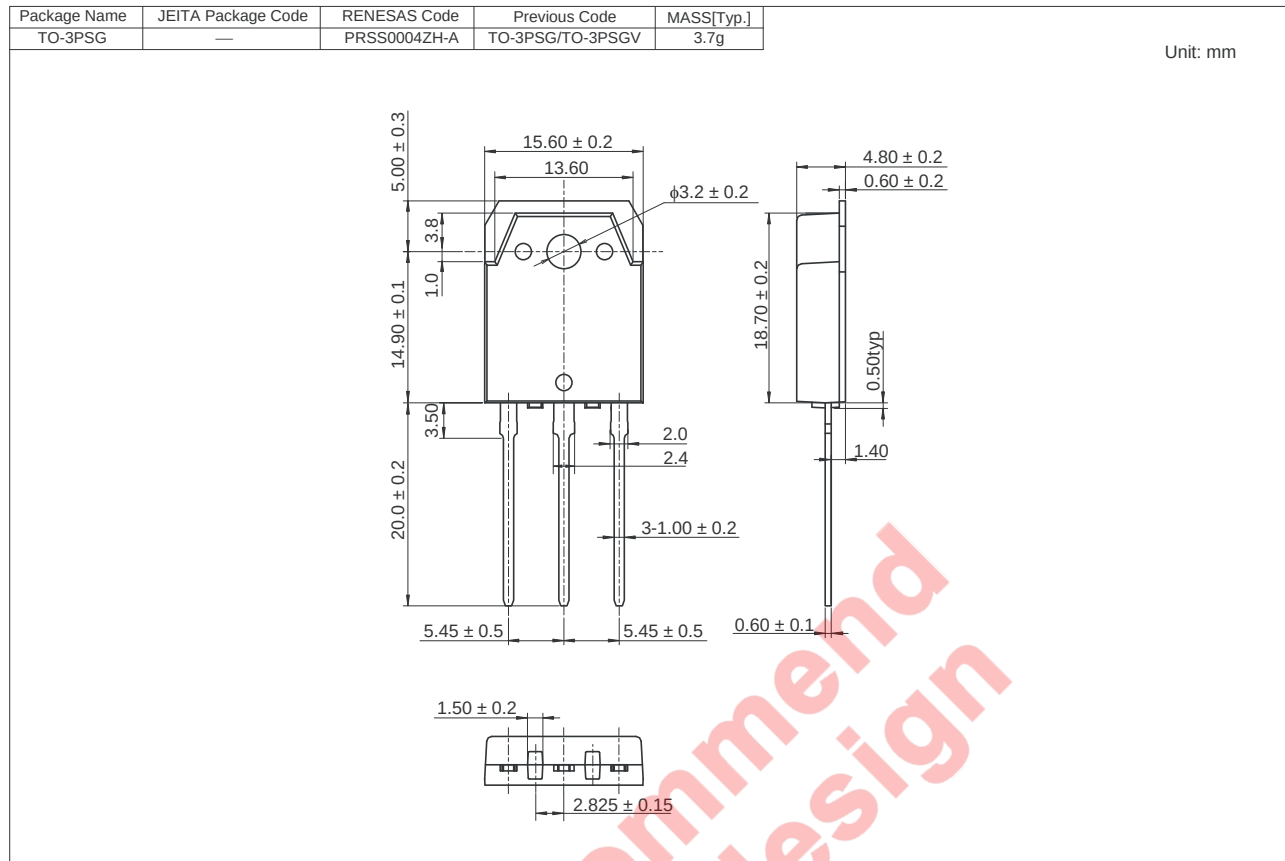
Capacitance vs. Reverse Voltage (Typical)



Thermal Impedance vs. Pulse Width



Package Dimensions



Ordering Information

Orderable Part No.	Quantity	Shipping Container
RJU36B1WDPK-M0#T0	360 pcs	Box (Tube)

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