

RJU60C6WDPK-M0

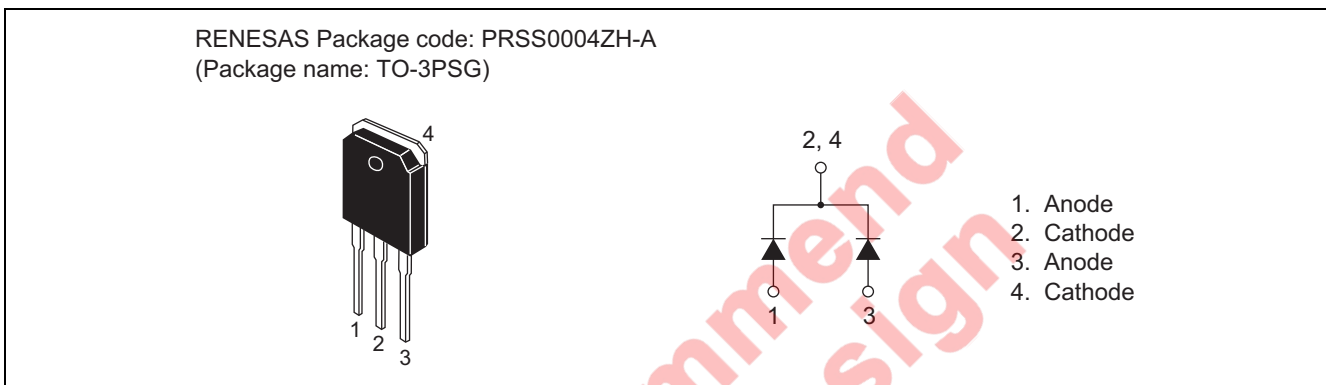
600V - 50A - Dual Diode
Super Fast Recovery Diode

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/ μ s) Per Leg
- Low forward voltage: $V_F = 1.4$ V typ. (at $I_F = 50$ A) Per Leg
- Low reverse current: $I_R = 1$ μ A max. (at $V_R = 600$ V) Per Leg

Outline



Absolute Maximum Ratings

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

Item	Symbol	Ratings	Unit
Maximum reverse voltage	V_{RM}	600	V
Continuous forward current (Per Leg/Device)	$T_C = 25^\circ\text{C}$ I_F ^{Note1}	50/100	A
	$T_C = 100^\circ\text{C}$ I_F ^{Note1}	25/50	A
Peak surge forward current (Per Leg/Device)	I_{FSM} ^{Note1}	140/280	A
Junction to case thermal resistance	θ_{j-cd}	1.28	$^\circ\text{C}/\text{W}$
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +150	$^\circ\text{C}$

Notes: 1. Per leg/device

Electrical Characteristics

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

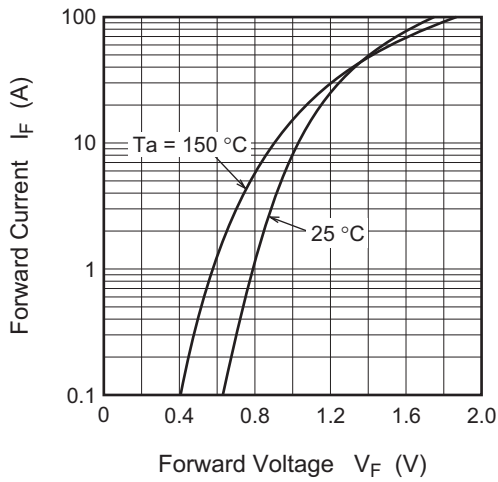
Item	Symbol	Min	Typ	Max	Unit	Test conditions
Forward voltage	V_F ^{Note2}	—	1.4	2.0	V	$I_F = 50$ A
Reverse current	I_R ^{Note1}	—	—	1/2	μA	$V_R = 600$ V
Reverse recovery time	t_{rr} ^{Note2}	—	100	—	ns	$I_F = 30$ A, $di/dt = 100$ A/ μ s

Notes: 1. Per leg/device

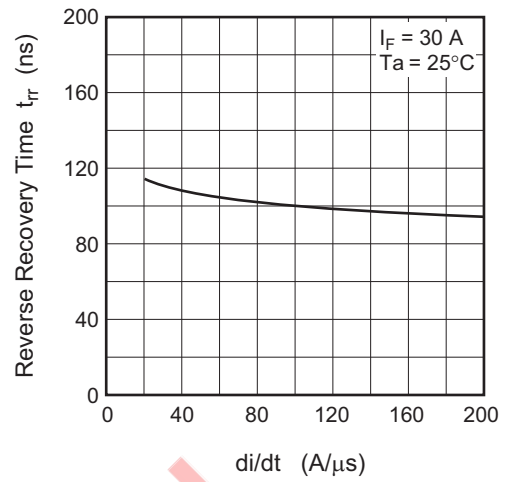
2. Per leg

Main Characteristics

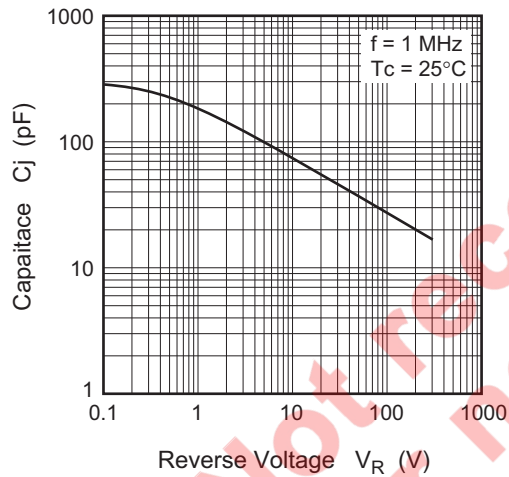
Forward Current vs. Forward Voltage (Typical)



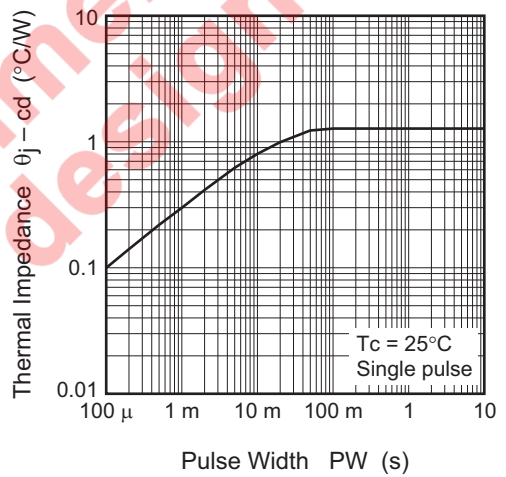
Reverse Recovery Time vs. di/dt (Typical)



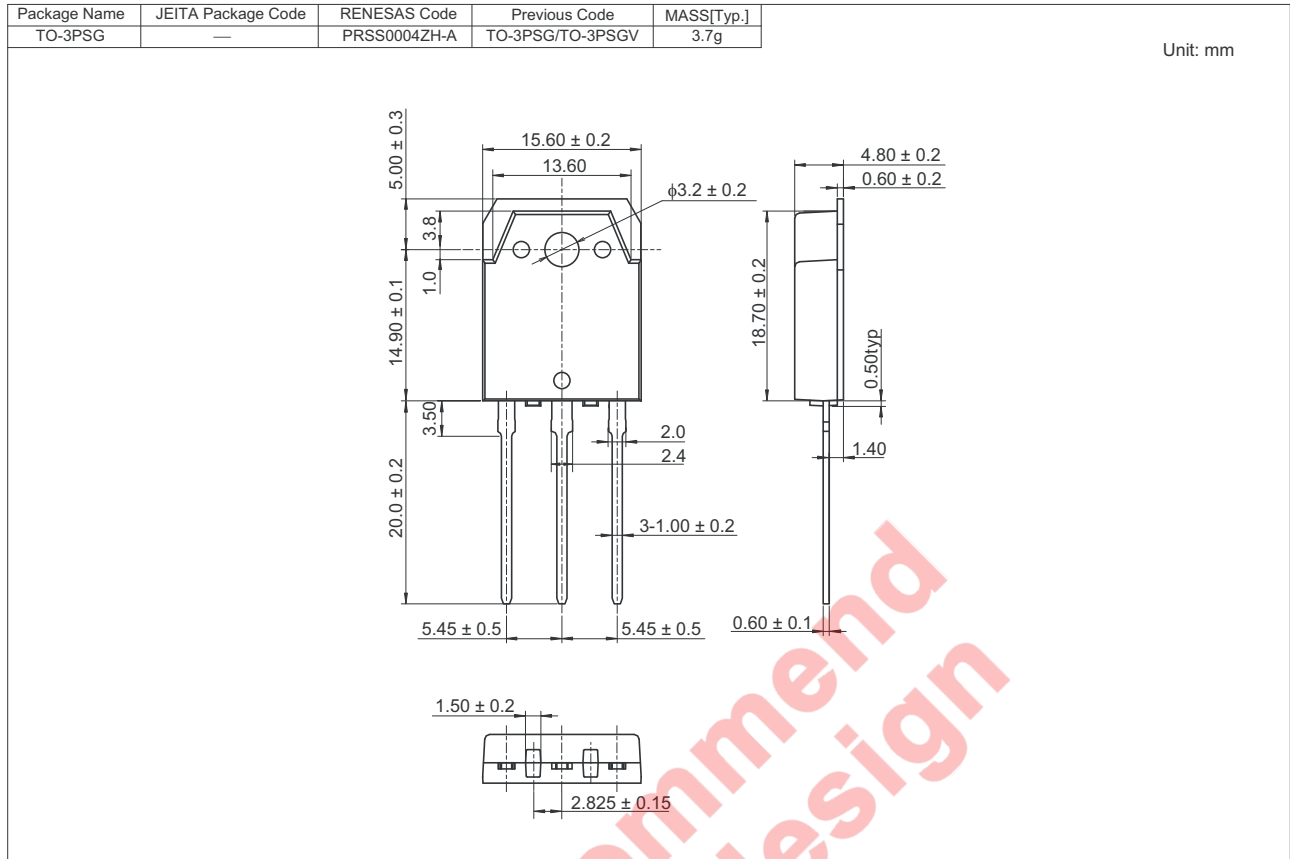
Capacitance vs. Reverse Voltage (Typical)



Thermal Impedance vs. Pulse Width



Package Dimensions



Ordering Information

Orderable Part No.	Quantity	Shipping Container
RJU60C6WDPK-M0#T0	360 pcs	Box (Tube)

Not recommend
for new design

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