

# RJU6053SDPD-E0

Single Diode Ultra Fast Recovery Diode

R07DS1272EJ0100 Rev.1.00 Mar 07, 2012

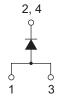
#### **Features**

- Ultra fast reverse recovery time:  $t_{rr} = 25$  ns typ. (at  $I_F = 20$  A, di/dt = 100 A/ $\mu$ s)
- Low forward voltage:  $V_F = 2.5 \text{ V}$  typ. (at  $I_F = 20 \text{ A}$ )
- Low reverse current:  $I_R = 1 \mu A \text{ max.}$  (at  $V_R = 600 \text{ V}$ )

#### **Outline**

RENESAS Package code: PRSS0004ZJ-A (Package name : TO-252)





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

### **Absolute Maximum Ratings**

 $(Ta = 25^{\circ}C)$ 

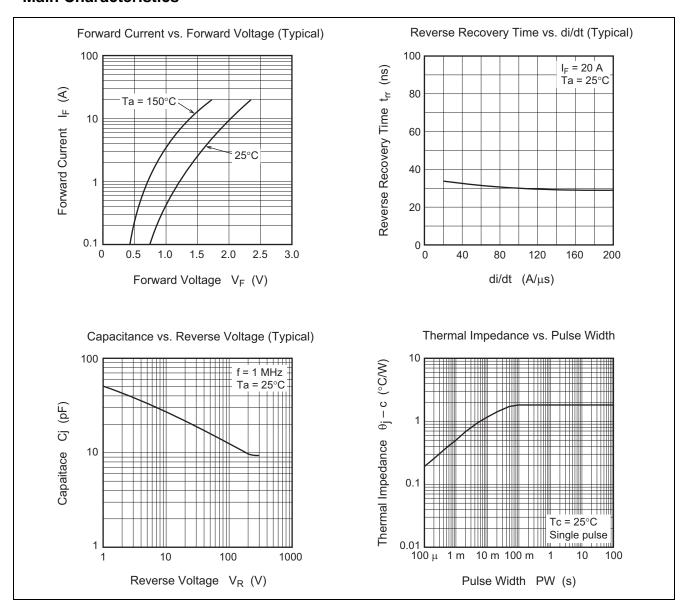
Item		Symbol	Ratings	Unit	
Maximum reverse voltage		$V_{RM}$	600	V	
Continuous forward current	Tc = 25°C	l <sub>F</sub>	20	А	
	Tc = 100°C	l <sub>F</sub>	10	А	
Peak surge forward current		IFSM	60	А	
Junction to case thermal resis	tance	θj-cd	1.8	°C/W	
Junction temperature		Tj	150	°C	
Storage temperature		Tstg	-55 to +150	°C	

#### **Electrical Characteristics**

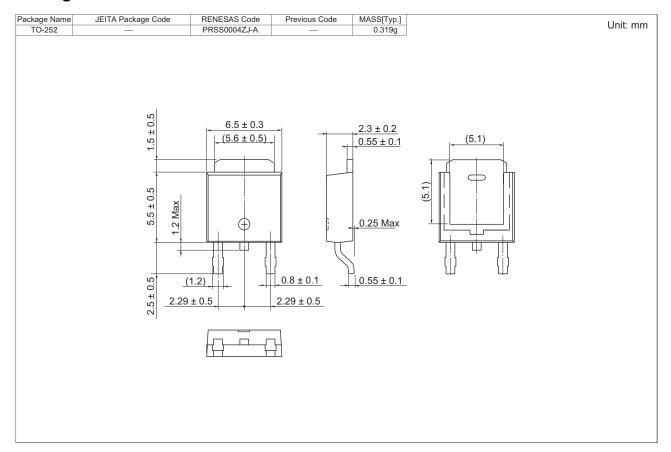
 $(Ta = 25^{\circ}C)$ 

Item	Symbol	Min	Тур	Max	Unit	Test conditions
Forward voltage	VF		2.5	3.0	V	I <sub>F</sub> = 20 A
Reverse current	I <sub>R</sub>	_	_	1	μΑ	V <sub>R</sub> = 600 V
Reverse recovery time	t <sub>rr</sub>	_	25	_	ns	I <sub>F</sub> = 20 A, di/dt = 100 A/μs

#### **Main Characteristics**



## **Package Dimensions**



# **Ordering Information**

Orderable Part Number	Quantity	Shipping Container
RJU6053SDPE-E0#J2	3000 pcs	Taping

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