

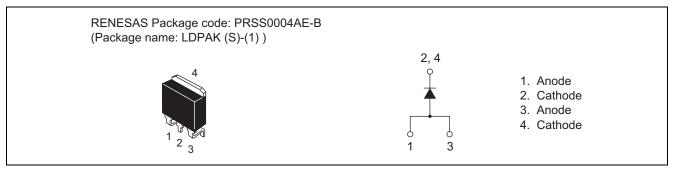
# RJU6053SDPE

Single Diode Ultra Fast Recovery Diode R07DS0382EJ0100 Rev.1.00 Apr 26, 2011

#### Features

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

### Outline



## **Absolute Maximum Ratings**

				$(Ta = 25^{\circ}C)$
ltem		Symbol	Ratings	Unit
Maximum reverse voltage		V <sub>RM</sub>	600	V
Continuous forward current	Tc = 25°C	I <sub>F</sub>	20	А
	Tc = 100°C	I <sub>F</sub>	10	А
Peak surge forward current		I <sub>FSM</sub>	60	А
Junction to case thermal resistance		θj-cd	1.4	°C/W
Junction temperature		Тј	150	°C
Storage temperature		Tstg	-55 to +150	°C

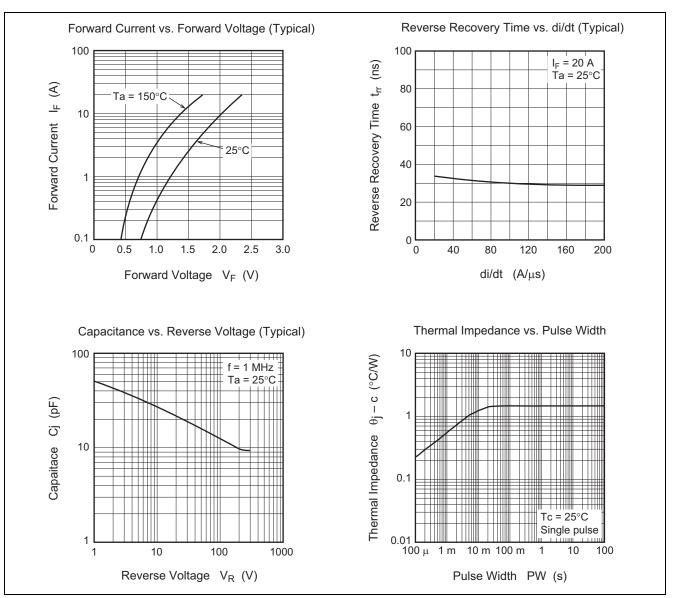
#### **Electrical Characteristics**

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

Item	Symbol	Min	Тур	Max	Unit	Test conditions
Forward Voltage	V <sub>F</sub>	_	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

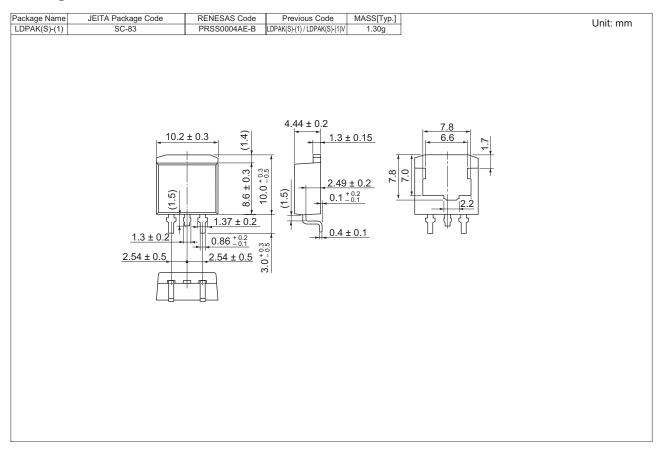


#### **Main Characteristics**





#### **Package Dimensions**



## **Ordering Information**

Orderable Part Number	Quantity	Shipping Container
RJU6053SDPE-00-J3	1000 pcs	Taping



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