

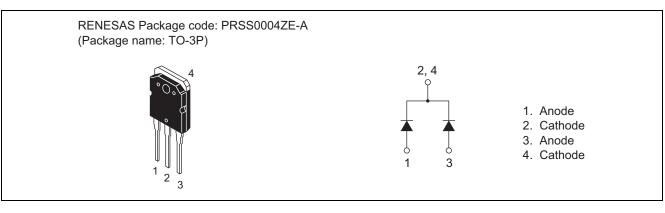
# RJS6004WDPK

600V - 20A - Diode SiC Schottky Barrier Diode R07DS0897EJ0300 Rev.3.00 Jan 29, 2014

### Features

- New semiconductor material: Silicon Carbide Diode
- No reverse recovery / No forward recovery

#### Outline



## **Absolute Maximum Ratings**

			$(Ta = 25^{\circ}C)$
Item	Symbol	Ratings	Unit
Maximum reverse voltage	V <sub>RM</sub>	600	V
Continuous forward current	I <sub>F</sub> <sup>Note1</sup>	10/20	A
Peak surge forward current	I <sub>FSM</sub> Note1	60/120	A
Junction to case thermal impedance	өј-с	0.9	°C/W
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	۵°

Notes: 1. Per leg/device

## **Electrical Characteristics**

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

Item	Symbol	Min	Тур	Max	Unit	Test conditions
Forward voltage	V <sub>F</sub> <sup>Note2</sup>	_	1.5	1.8	V	I <sub>F</sub> = 10 A
Reverse current	I <sub>R</sub> <sup>Note1</sup>	_	_	10/20	μΑ	V <sub>R</sub> = 600 V
Reverse recovery time	t <sub>rr</sub> <sup>Note2</sup>		15		ns	$I_F = 10 \text{ A}, \text{ di/dt} = 300 \text{ A}/\mu \text{ s}$

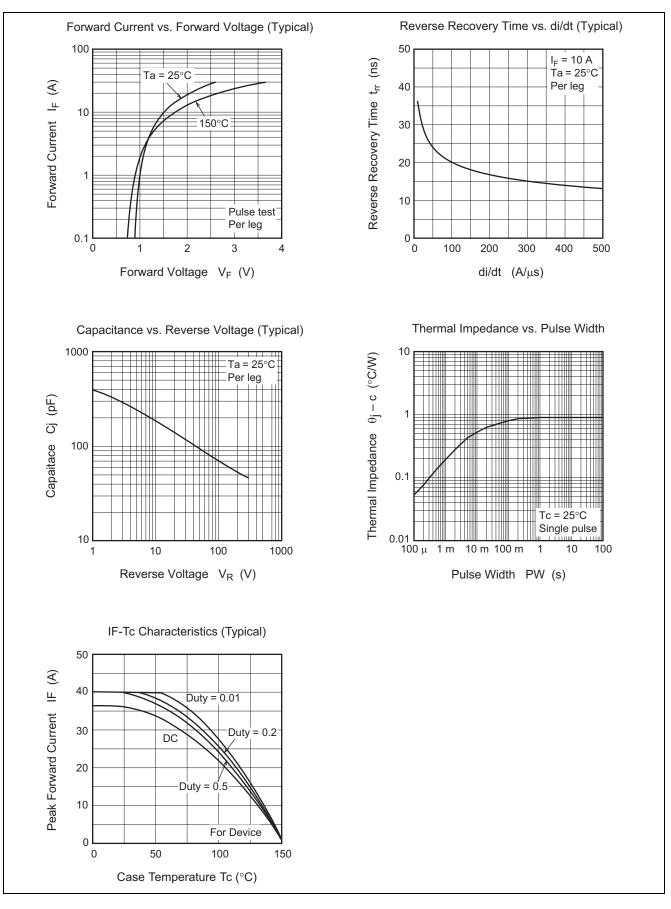
Notes: 1. Per leg/device

2. Per leg



Datasheet

### **Main Characteristics**





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