

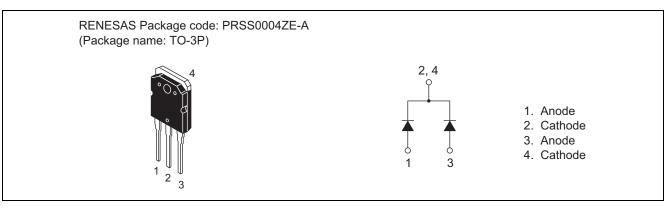
RJS6005WDPK

600V - 30A - Diode SiC Schottky Barrier Diode R07DS0901EJ0201 Rev.2.01 Jan 31, 2014

Features

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

Outline



Absolute Maximum Ratings

			(Ta = 25°C)
Item	Symbol	Ratings	Unit
Maximum reverse voltage	V _{RM}	600	V
Continuous forward current	I _F Note1	15/30	A
Peak surge forward current	I _{FSM} ^{Note1}	90/180	A
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

Notes: 1. Per leg/device

Electrical Characteristics

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

Item	Symbol	Min	Тур	Max	Unit	Test conditions
Forward voltage	V _F ^{Note2}	_	1.5	1.8	V	I _F = 15 A
Reverse current	I _R ^{Note1}	_	—	10/20	μΑ	V _R = 600 V
Reverse recovery time	t _{rr} ^{Note2}	_	15	_	ns	I _F = 15 A, di/dt = -300A/µs

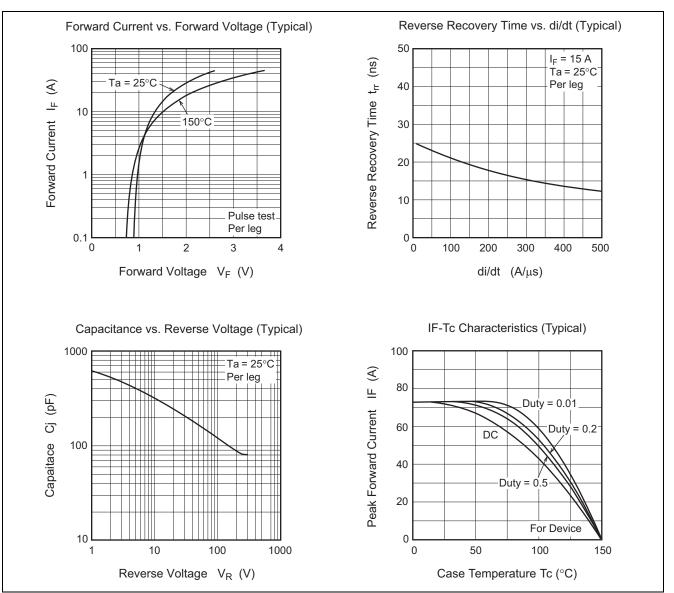
Notes: 1. Per leg/device

2. Per leg

Datasheet



Main Characteristics





Package Dimensions

Package Name TO-3P	JEITA Package Code SC-65	RENESAS Code	Previous Code	MASS[Typ.]	
10-34	SC-65	PRSS0004ZE-A 15.6 ± 0.3 <u>\$\phi3.2 ± 0.2</u> \$\phi3.2 ± 0.2 \$\phi3.2 ± 0.2 ± 0.2 \$\phi3.2 ± 0.2 	T0-3P/T0-3PV 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	5.09 4.8 ± 0.2 1.5 2.8 0.6 ± 0.2	Unit: mm
	<u>5.45 ± 0</u>		<u>.0</u> <u>.0</u> <u>.5.45 ± 0.5</u>		

Ordering Information

Orderable Part Number	Quantity	Shipping Container
RJS6005WDPK-00#T0	360 pcs	Box (Tube)



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