

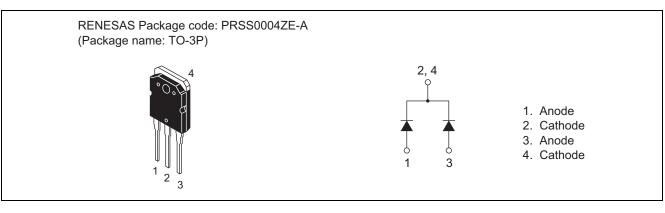
RJS6004WDPK

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 _{RM}	600	V
Continuous forward current	I _F ^{Note1}	10/20	A
Peak surge forward current	I _{FSM} 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 _F ^{Note2}	—	1.5	1.8	V	I _F = 10 A
Reverse current	I _R ^{Note1}	_	_	10/20	μΑ	V _R = 600 V
Reverse recovery time	t _{rr} ^{Note2}		15		ns	$I_F = 10 \text{ A}, \text{ di/dt} = 300 \text{ A}/\mu \text{ s}$

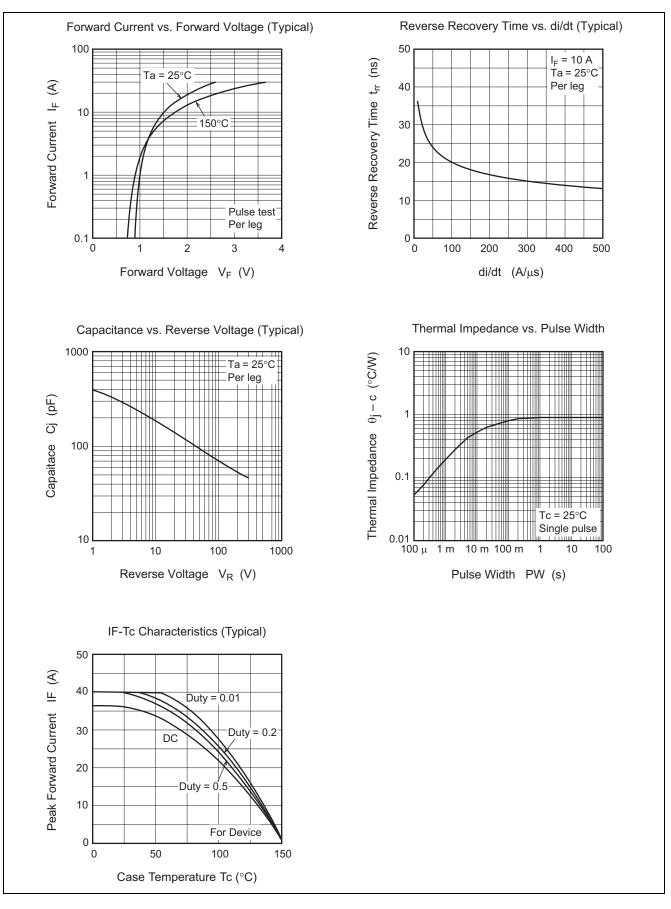
Notes: 1. Per leg/device

2. Per leg



Datasheet

Main Characteristics





Package Dimensions

Package Name TO-3P	JEITA Package Code SC-65	RENESAS Code	Previous Code	MASS[Typ.]	
TO-3P	SC-65	PRSS0004ZE-A 15.6 ± 0.3	T0-3P/T0-3PV 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,	5.0g 4.8 ± 0.2 1.5 0.6 ± 0.2	Unit: mm
	<u>5.45 ± 0</u>		<u>.0</u> <u>.0</u> <u></u> <u>5.45 ± 0.5</u>		

Ordering Information

Orderable Part Number	Quantity	Shipping Container
RJS6004WDPK-00#T0	360 pcs	Box (Tube)



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